



Industrial, Instrumentation & Process Control Cables
catalogue

at the heart of every project



INTRODUCTION

MESC Specialized Cables is considered as a **world-class and top-of-the-range manufacturer and leading supplier of specialized cables** to EPC contractors for mega projects in the Middle East and North Africa.



Established in 1993 as a privately owned company, MESC Specialized Cables started rolling its machines in 1994 and selling in 1995. After consolidating its presence in KSA as **the market leader**, MESC Specialized Cables succeeded in penetrating other markets in GCC, Middle East, North Africa, Europe and USA.



MESC Specialized Cables plant consists of **ultra modern facilities, high-tech machinery and a well-equipped laboratory**, built for conducting various routine and type tests. It operates with a **clearly defined and documented Quality System** set in accordance with the guidelines of **ISO9001:2000 and ISO14001:2004** for all its activities right from the selection of raw material suppliers, schedule planning, production, testing and to the delivery of cables, with a policy aiming for total customer satisfaction. MESC Specialized Cables products are **manufactured to international standards, tested and certified by prestigious institutions** such as: 3P (Denmark), BSI(UK), Cable Technology Laboratories Inc. (USA), CSA (Canada), IMQ (Italy), KEMA (Netherlands), Saudi Arabian Standards Organization (SASO), UL (USA), VDE (Germany), Warrington Fire Research (UK).



MESC Specialized Cables products are **approved by all oil, gas and petrochemical companies** in the GCC region, such as: Aramco, Sabic, STC, SEC (KSA), Kuwait Oil Co. (KOC), KNPC (Kuwait), Qatar Petroleum, MEW (Qatar), ADCO, GASCO, ADNOC (UAE). They are also approved by many major international EPC contractors such as: ABB, ABV Rock Group, Bechtel, Daelim Engineering Co., Doosan Heavy Industries, Fisia Italiampianti, Fluor Daniel, Hyundai Engineering & Construction Co., JGC Corporation, NPCC, Siemens, Snamprogetti, Technip, Toyo Engineering Co.



This catalogue covers most of the products' range with **illustrative technical parameters of each cable**. However, this range isn't restricted since MESC Specialized Cables true value is in the **adaptation of the products according to the customers' needs and specifications**.





CERTIFICATE

The TÜV CERT Certification Body
for QM-Systems of RWTÜV Systems GmbH

hereby certifies in accordance with TÜV CERT
procedure that



M E S C
SPECIALIZED CABLES
P.O. Box 585, Riyadh – 11383
Kingdom of Saudi Arabia

has established and applies a quality system for

Manufacture and sales of industrial, instrumentation,
process control, data, system, coaxial, telephone, fire
resistant and low voltage power & control cables

An audit was performed, Report No. 2.5-2775/2001

Proof has been furnished that the requirements according to
ISO 9001 : 2000 / EN ISO 9001 : 2000

are fulfilled. The certificate is valid until **29 February 2008**

Certificate Registration No. **04100 19950457**

The company has been certified since **1995**



Essen, 07.03.2005



The TÜV CERT Certification Body for QM systems
of RWTÜV Systems GmbH

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M E S C
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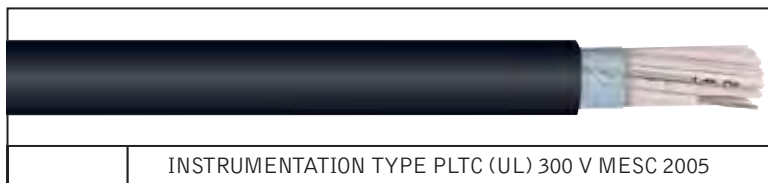
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INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL) XLPE INSULATED MULTICONDUCTOR UNSHIELDED CABLES

Temperature range - 40°C to +90°C

Specifications : UL13



Application : Industrial signalling and process control circuit in dry or wet locations. The cable can be used in cable trays conduit or direct burial application.

Conductor : Tinned copper to ASTM B33, stranded to class B of ASTM B8.

Insulation : Flame retardant XLPE to ICEA S-82-552.

Assembly : Insulated cores are cabled with suitable non-hygroscopic fillers and polyester binder if necessary.

Jacket : Extruded black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code

Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing

Other colour codes can be manufactured on request

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL)

XLPE INSULATED MULTICONDUCTOR

UNSHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
20	01001	0124-02C20AWG-U0BK8-03	2	7X0.307	0.38	0.89	5.6	43
	01002	0124-03C20AWG-U0BK8-03	3	7X0.307	0.38	0.89	5.8	48
	01003	0124-04C20AWG-U0BK8-03	4	7X0.307	0.38	0.89	6.3	58
	01004	0124-05C20AWG-U0BK8-03	5	7X0.307	0.38	1.01	6.8	68
	01005	0124-06C20AWG-U0BK8-03	6	7X0.307	0.38	1.01	7.8	82
	01006	0124-07C20AWG-U0BK8-03	7	7X0.307	0.38	1.01	7.8	85
	01007	0124-08C20AWG-U0BK8-03	8	7X0.307	0.38	1.01	8.4	97
	01008	0124-09C20AWG-U0BK8-03	9	7X0.307	0.38	1.01	8.9	108
	01009	0124-10C20AWG-U0BK8-03	10	7X0.307	0.38	1.01	9.6	115
	01010	0124-12C20AWG-U0BK8-03	12	7X0.307	0.38	1.27	10.4	143
	01011	0124-15C20AWG-U0BK8-03	15	7X0.307	0.38	1.27	11.4	172
	01012	0124-16C20AWG-U0BK8-03	16	7X0.307	0.38	1.27	11.4	180
	01013	0124-19C20AWG-U0BK8-03	19	7X0.307	0.38	1.27	11.9	201
	01014	0124-20C20AWG-U0BK8-03	20	7X0.307	0.38	1.27	12.5	214
	01015	0124-24C20AWG-U0BK8-03	24	7X0.307	0.38	1.27	13.7	247
	01016	0124-25C20AWG-U0BK8-03	25	7X0.307	0.38	1.27	13.7	254
	01017	0124-27C20AWG-U0BK8-03	27	7X0.307	0.38	1.27	14.0	270
	01018	0124-30C20AWG-U0BK8-03	30	7X0.307	0.38	1.27	14.4	291
	01019	0124-37C20AWG-U0BK8-03	37	7X0.307	0.38	1.52	16.0	367
	01020	0124-48C20AWG-U0BK8-03	48	7X0.307	0.38	1.52	18.0	454
	01021	0124-61C20AWG-U0BK8-03	61	7X0.307	0.38	1.52	19.6	558

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
18	01022	0124-02C18AWG-U0BK8-03	2	7X0.386	0.38	0.89	6.0	52
	01023	0124-03C18AWG-U0BK8-03	3	7X0.386	0.38	0.89	6.4	63
	01024	0124-04C18AWG-U0BK8-03	4	7X0.386	0.38	0.89	6.9	75
	01025	0124-05C18AWG-U0BK8-03	5	7X0.386	0.38	1.01	7.7	94
	01026	0124-06C18AWG-U0BK8-03	6	7X0.386	0.38	1.01	8.5	106
	01027	0124-07C18AWG-U0BK8-03	7	7X0.386	0.38	1.01	8.5	111
	01028	0124-08C18AWG-U0BK8-03	8	7X0.386	0.38	1.01	9.2	128
	01029	0124-09C18AWG-U0BK8-03	9	7X0.386	0.38	1.01	9.8	144
	01030	0124-10C18AWG-U0BK8-03	10	7X0.386	0.38	1.27	11.1	167
	01031	0124-12C18AWG-U0BK8-03	12	7X0.386	0.38	1.27	11.4	189
	01032	0124-15C18AWG-U0BK8-03	15	7X0.386	0.38	1.27	12.5	228
	01033	0124-16C18AWG-U0BK8-03	16	7X0.386	0.38	1.27	12.5	238
	01034	0124-19C18AWG-U0BK8-03	19	7X0.386	0.38	1.27	13.1	270
	01035	0124-20C18AWG-U0BK8-03	20	7X0.386	0.38	1.27	13.8	287
	01036	0124-24C18AWG-U0BK8-03	24	7X0.386	0.38	1.27	15.1	332
	01037	0124-25C18AWG-U0BK8-03	25	7X0.386	0.38	1.27	15.1	342
	01038	0124-27C18AWG-U0BK8-03	27	7X0.386	0.38	1.52	15.9	382
	01039	0124-30C18AWG-U0BK8-03	30	7X0.386	0.38	1.52	16.5	420
	01040	0124-37C18AWG-U0BK8-03	37	7X0.386	0.38	1.52	17.7	499
	01041	0124-48C18AWG-U0BK8-03	48	7X0.386	0.38	1.52	20.0	625
	01042	0124-61C18AWG-U0BK8-03	61	7X0.386	0.38	1.52	21.7	767

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL)

XLPE INSULATED MULTICONDUCTOR UNSHIELDED CABLES

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
16	01043	0124-02C16AWG-U0BK8-03	2	7X0.488	0.38	0.89	6.6	68
	01044	0124-03C16AWG-U0BK8-03	3	7X0.488	0.38	0.89	7.0	83
	01045	0124-04C16AWG-U0BK8-03	4	7X0.488	0.38	1.01	7.8	104
	01046	0124-05C16AWG-U0BK8-03	5	7X0.488	0.38	1.01	8.5	125
	01047	0124-06C16AWG-U0BK8-03	6	7X0.488	0.38	1.01	9.4	142
	01048	0124-07C16AWG-U0BK8-03	7	7X0.488	0.38	1.01	9.4	150
	01049	0124-08C16AWG-U0BK8-03	8	7X0.488	0.38	1.27	10.7	186
	01050	0124-09C16AWG-U0BK8-03	9	7X0.488	0.38	1.27	11.4	210
	01051	0124-10C16AWG-U0BK8-03	10	7X0.488	0.38	1.27	12.3	225
	01052	0124-12C16AWG-U0BK8-03	12	7X0.488	0.38	1.27	12.6	255
	01053	0124-15C16AWG-U0BK8-03	15	7X0.488	0.38	1.27	13.9	311
	01054	0124-16C16AWG-U0BK8-03	16	7X0.488	0.38	1.27	13.9	327
	01055	0124-19C16AWG-U0BK8-03	19	7X0.488	0.38	1.27	14.6	373
	01056	0124-20C16AWG-U0BK8-03	20	7X0.488	0.38	1.27	15.4	398
	01057	0124-24C16AWG-U0BK8-03	24	7X0.488	0.38	1.52	17.4	483
	01058	0124-25C16AWG-U0BK8-03	25	7X0.488	0.38	1.52	17.4	498
01059	0124-27C16AWG-U0BK8-03	27	7X0.488	0.38	1.52	17.8	532	
01060	0124-30C16AWG-U0BK8-03	30	7X0.488	0.38	1.52	18.4	582	
01061	0124-37C16AWG-U0BK8-03	37	7X0.488	0.38	1.52	19.8	698	
01062	0124-48C16AWG-U0BK8-03	48	7X0.488	0.38	1.78	23.0	911	
01063	0124-61C16AWG-U0BK8-03	61	7X0.488	0.38	1.78	24.9	1118	

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
14	01064	0124-02C14AWG-U0BK8-03	2	7X0.615	0.38	1.01	7.7	98
	01065	0124-03C14AWG-U0BK8-03	3	7X0.615	0.38	1.01	8.1	119
	01066	0124-04C14AWG-U0BK8-03	4	7X0.615	0.38	1.01	8.8	145
	01067	0124-05C14AWG-U0BK8-03	5	7X0.615	0.38	1.01	9.6	176
	01068	0124-06C14AWG-U0BK8-03	6	7X0.615	0.38	1.27	11.1	212
	01069	0124-07C14AWG-U0BK8-03	7	7X0.615	0.38	1.27	11.1	226
	01070	0124-08C14AWG-U0BK8-03	8	7X0.615	0.38	1.27	12.0	260
	01071	0124-09C14AWG-U0BK8-03	9	7X0.615	0.38	1.27	12.8	293
	01072	0124-10C14AWG-U0BK8-03	10	7X0.615	0.38	1.27	13.8	313
	01073	0124-12C14AWG-U0BK8-03	12	7X0.615	0.38	1.27	14.3	363
	01074	0124-15C14AWG-U0BK8-03	15	7X0.615	0.38	1.52	16.2	461
	01075	0124-16C14AWG-U0BK8-03	16	7X0.615	0.38	1.52	16.2	486
	01076	0124-19C14AWG-U0BK8-03	19	7X0.615	0.38	1.52	17.0	555
	01077	0124-20C14AWG-U0BK8-03	20	7X0.615	0.38	1.52	17.9	590
	01078	0124-24C14AWG-U0BK8-03	24	7X0.615	0.38	1.52	19.8	695
	01079	0124-25C14AWG-U0BK8-03	25	7X0.615	0.38	1.52	19.8	717
01080	0124-27C14AWG-U0BK8-03	27	7X0.615	0.38	1.52	20.2	765	
01081	0124-30C14AWG-U0BK8-03	30	7X0.615	0.38	1.52	20.9	839	
01082	0124-37C14AWG-U0BK8-03	37	7X0.615	0.38	1.78	23.0	1039	
01083	0124-48C14AWG-U0BK8-03	48	7X0.615	0.38	1.78	26.2	1321	
01084	0124-61C14AWG-U0BK8-03	61	7X0.615	0.38	1.78	28.4	1632	

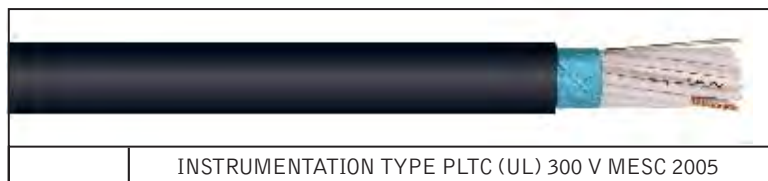
INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL)

XLPE INSULATED MULTICONDUCTOR SHIELDED CABLES

Temperature range - 40°C to +90°C

Specifications : UL13



- Application :** : Industrial signalling and process control circuit in dry or wet locations. The cable can be used in cable trays conduit or direct burial application.
- Conductor :** Tinned copper to ASTM B33, stranded to Class B of ASTM B8.
- Insulation :** Flame retardant XLPE to ICEA S-82-552.
- Shielding :** Insulated cores are cabled and shielded with aluminium polyester tape for 100% coverage with a tinned copper drain wire.
- Jacket :** Extruded black PVC as per UL13, oil and sunlight resistant passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL) XLPE INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
20	02001	0224-02C20AWG-U0BK8-03	2	7x0.307	0.38	0.89	5.9	48
	02002	0224-03C20AWG-U0BK8-03	3	7x0.307	0.38	0.89	6.1	53
	02003	0224-04C20AWG-U0BK8-03	4	7x0.307	0.38	0.89	6.6	60
	02004	0224-05C20AWG-U0BK8-03	5	7x0.307	0.38	1.01	7.4	76
	02005	0224-06C20AWG-U0BK8-03	6	7x0.307	0.38	1.01	7.9	83
	02006	0224-07C20AWG-U0BK8-03	7	7x0.307	0.38	1.01	7.9	85
	02007	0224-08C20AWG-U0BK8-03	8	7x0.307	0.38	1.01	8.5	98
	02008	0224-09C20AWG-U0BK8-03	9	7x0.307	0.38	1.01	9.0	109
	02009	0224-10C20AWG-U0BK8-03	10	7x0.307	0.38	1.01	9.7	116
	02010	0224-12C20AWG-U0BK8-03	12	7x0.307	0.38	1.27	10.5	144
	02011	0224-15C20AWG-U0BK8-03	15	7x0.307	0.38	1.27	11.5	173
	02012	0224-16C20AWG-U0BK8-03	16	7x0.307	0.38	1.27	11.5	180
	02013	0224-19C20AWG-U0BK8-03	19	7x0.307	0.38	1.27	12.0	201
	02014	0224-20C20AWG-U0BK8-03	20	7x0.307	0.38	1.27	12.6	214
	02015	0224-24C20AWG-U0BK8-03	24	7x0.307	0.38	1.27	13.8	248
	02016	0224-25C20AWG-U0BK8-03	25	7x0.307	0.38	1.27	13.8	255
	02017	0224-27C20AWG-U0BK8-03	27	7x0.307	0.38	1.27	14.1	270
	02018	0224-30C20AWG-U0BK8-03	30	7x0.307	0.38	1.27	14.5	292
	02019	0224-37C20AWG-U0BK8-03	37	7x0.307	0.38	1.52	16.1	367
	02020	0224-48C20AWG-U0BK8-03	48	7x0.307	0.38	1.52	18.1	455
	02021	0224-61C20AWG-U0BK8-03	61	7x0.307	0.38	1.52	19.7	559

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
18	02022	0224-02C18AWG-U0BK8-03	2	7X0.386	0.38	0.89	6.3	58
	02023	0224-03C18AWG-U0BK8-03	3	7X0.386	0.38	0.89	6.7	69
	02024	0224-04C18AWG-U0BK8-03	4	7X0.386	0.38	1.01	7.4	81
	02025	0224-05C18AWG-U0BK8-03	5	7X0.386	0.38	1.01	8.0	96
	02026	0224-06C18AWG-U0BK8-03	6	7X0.386	0.38	1.01	8.6	106
	02027	0224-07C18AWG-U0BK8-03	7	7X0.386	0.38	1.01	8.6	111
	02028	0224-08C18AWG-U0BK8-03	8	7X0.386	0.38	1.01	9.3	128
	02029	0224-09C18AWG-U0BK8-03	9	7X0.386	0.38	1.27	10.4	157
	02030	0224-10C18AWG-U0BK8-03	10	7X0.386	0.38	1.27	11.2	168
	02031	0224-12C18AWG-U0BK8-03	12	7X0.386	0.38	1.27	11.5	189
	02032	0224-15C18AWG-U0BK8-03	15	7X0.386	0.38	1.27	12.6	228
	02033	0224-16C18AWG-U0BK8-03	16	7X0.386	0.38	1.27	12.6	239
	02034	0224-19C18AWG-U0BK8-03	19	7X0.386	0.38	1.27	13.2	270
	02035	0224-20C18AWG-U0BK8-03	20	7X0.386	0.38	1.27	13.9	288
	02036	0224-24C18AWG-U0BK8-03	24	7X0.386	0.38	1.27	15.2	333
	02037	0224-25C18AWG-U0BK8-03	25	7X0.386	0.38	1.27	15.2	343
	02038	0224-27C18AWG-U0BK8-03	27	7X0.386	0.38	1.52	16.0	383
	02039	0224-30C18AWG-U0BK8-03	30	7X0.386	0.38	1.52	16.6	421
	02040	0224-37C18AWG-U0BK8-03	37	7X0.386	0.38	1.52	17.8	500
	02041	0224-48C18AWG-U0BK8-03	48	7X0.386	0.38	1.52	20.1	626
	02042	0224-61C18AWG-U0BK8-03	61	7X0.386	0.38	1.52	21.8	768

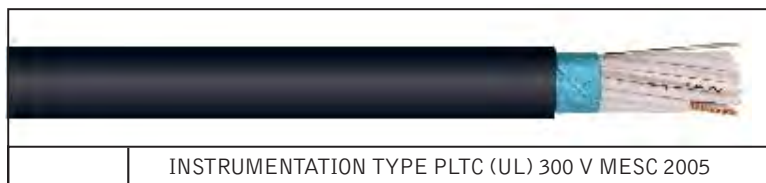
INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL) XLPE INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
16	02043	0224-02C16AWG-U0BK8-03	2	7X0.488	0.38	0.89	6.9	74
	02044	0224-03C16AWG-U0BK8-03	3	7X0.488	0.38	1.01	7.6	94
	02045	0224-04C16AWG-U0BK8-03	4	7X0.488	0.38	1.01	8.1	107
	02046	0224-05C16AWG-U0BK8-03	5	7X0.488	0.38	1.01	8.8	128
	02047	0224-06C16AWG-U0BK8-03	6	7X0.488	0.38	1.01	9.5	142
	02048	0224-07C16AWG-U0BK8-03	7	7X0.488	0.38	1.01	9.5	151
	02049	0224-08C16AWG-U0BK8-03	8	7X0.488	0.38	1.27	10.8	187
	02050	0224-09C16AWG-U0BK8-03	9	7X0.488	0.38	1.27	11.5	211
	02051	0224-10C16AWG-U0BK8-03	10	7X0.488	0.38	1.27	12.4	225
	02052	0224-12C16AWG-U0BK8-03	12	7X0.488	0.38	1.27	12.7	255
	02053	0224-15C16AWG-U0BK8-03	15	7X0.488	0.38	1.27	14.0	312
	02054	0224-16C16AWG-U0BK8-03	16	7X0.488	0.38	1.27	14.0	328
	02055	0224-19C16AWG-U0BK8-03	19	7X0.488	0.38	1.27	14.7	374
	02056	0224-20C16AWG-U0BK8-03	20	7X0.488	0.38	1.52	16.0	418
	02057	0224-24C16AWG-U0BK8-03	24	7X0.488	0.38	1.52	17.5	484
	02058	0224-25C16AWG-U0BK8-03	25	7X0.488	0.38	1.52	17.5	499
	02059	0224-27C16AWG-U0BK8-03	27	7X0.488	0.38	1.52	17.9	533
	02060	0224-30C16AWG-U0BK8-03	30	7X0.488	0.38	1.52	18.5	583
	02061	0224-37C16AWG-U0BK8-03	37	7X0.488	0.38	1.52	19.9	699
02062	0224-48C16AWG-U0BK8-03	48	7X0.488	0.38	1.78	23.1	912	
02063	0224-61C16AWG-U0BK8-03	61	7X0.488	0.38	1.78	25.0	1119	

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
14	02064	0224-02C14AWG-U0BK8-03	2	7X0.615	0.38	1.01	8.0	104
	02065	0224-03C14AWG-U0BK8-03	3	7X0.615	0.38	1.01	8.4	126
	02066	0224-04C14AWG-U0BK8-03	4	7X0.615	0.38	1.01	9.1	148
	02067	0224-05C14AWG-U0BK8-03	5	7X0.615	0.38	1.27	10.4	191
	02068	0224-06C14AWG-U0BK8-03	6	7X0.615	0.38	1.27	11.2	213
	02069	0224-07C14AWG-U0BK8-03	7	7X0.615	0.38	1.27	11.2	227
	02070	0224-08C14AWG-U0BK8-03	8	7X0.615	0.38	1.27	12.1	260
	02071	0224-09C14AWG-U0BK8-03	9	7X0.615	0.38	1.27	12.9	294
	02072	0224-10C14AWG-U0BK8-03	10	7X0.615	0.38	1.27	13.9	313
	02073	0224-12C14AWG-U0BK8-03	12	7X0.615	0.38	1.27	14.4	364
	02074	0224-15C14AWG-U0BK8-03	15	7X0.615	0.38	1.52	16.3	462
	02075	0224-16C14AWG-U0BK8-03	16	7X0.615	0.38	1.52	16.3	487
	02076	0224-19C14AWG-U0BK8-03	19	7X0.615	0.38	1.52	17.1	556
	02077	0224-20C14AWG-U0BK8-03	20	7X0.615	0.38	1.52	18.0	590
	02078	0224-24C14AWG-U0BK8-03	24	7X0.615	0.38	1.52	19.9	696
	02079	0224-25C14AWG-U0BK8-03	25	7X0.615	0.38	1.52	19.9	718
	02080	0224-27C14AWG-U0BK8-03	27	7X0.615	0.38	1.52	20.3	765
	02081	0224-30C14AWG-U0BK8-03	30	7X0.615	0.38	1.52	21.0	840
	02082	0224-37C14AWG-U0BK8-03	37	7X0.615	0.38	1.78	23.1	1040
02083	0224-48C14AWG-U0BK8-03	48	7X0.615	0.38	1.78	26.3	1322	
02084	0224-61C14AWG-U0BK8-03	61	7X0.615	0.38	1.78	28.5	1633	

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL) PVC INSULATED MULTICONDUCTOR UNSHIELDED CABLES

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Industrial signalling and process control circuit in dry or wet locations. The cable can be used in cable trays conduit or direct burial application.

- Conductor** : Plain copper to ASTM B3, stranded to class B of ASTM B8.
- Insulation** : Flame retardant PVC rated 90°C as per UL13.
- Assembly** : Insulated cores are cabled with suitable non-hygroscopic fillers and polyester binder if necessary.
- Jacket** : Extruded black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL)

PVC INSULATED MULTICONDUCTOR

UNSHIELDED CABLES

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
20	01085	0111-02C20AWG-U0BK8-03	2	7X0.307	0.38	0.89	5.6	45
	01086	0111-03C20AWG-U0BK8-03	3	7X0.307	0.38	0.89	5.8	52
	01087	0111-04C20AWG-U0BK8-03	4	7X0.307	0.38	0.89	6.3	62
	01088	0111-05C20AWG-U0BK8-03	5	7X0.307	0.38	0.89	6.8	74
	01089	0111-06C20AWG-U0BK8-03	6	7X0.307	0.38	1.01	7.8	89
	01090	0111-07C20AWG-U0BK8-03	7	7X0.307	0.38	1.01	7.8	93
	01091	0111-08C20AWG-U0BK8-03	8	7X0.307	0.38	1.01	8.4	107
	01092	0111-09C20AWG-U0BK8-03	9	7X0.307	0.38	1.01	8.9	120
	01093	0111-10C20AWG-U0BK8-03	10	7X0.307	0.38	1.01	9.6	127
	01094	0111-12C20AWG-U0BK8-03	12	7X0.307	0.38	1.27	10.4	157
	01095	0111-15C20AWG-U0BK8-03	15	7X0.307	0.38	1.27	11.4	189
	01096	0111-16C20AWG-U0BK8-03	16	7X0.307	0.38	1.27	11.4	197
	01097	0111-19C20AWG-U0BK8-03	19	7X0.307	0.38	1.27	11.9	222
	01098	0111-20C20AWG-U0BK8-03	20	7X0.307	0.38	1.27	12.5	237
	01099	0111-24C20AWG-U0BK8-03	24	7X0.307	0.38	1.27	13.7	274
	01100	0111-25C20AWG-U0BK8-03	25	7X0.307	0.38	1.27	13.7	281
	01101	0111-27C20AWG-U0BK8-03	27	7X0.307	0.38	1.27	14.0	299
	01102	0111-30C20AWG-U0BK8-03	30	7X0.307	0.38	1.27	14.4	324
01103	0111-37C20AWG-U0BK8-03	37	7X0.307	0.38	1.52	16.0	407	
01104	0111-48C20AWG-U0BK8-03	48	7X0.307	0.38	1.52	18.0	507	
01105	0111-61C20AWG-U0BK8-03	61	7X0.307	0.38	1.52	19.6	625	

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
18	01106	0111-02C18AWG-U0BK8-03	2	7X0.386	0.38	0.89	6.0	55
	01107	0111-03C18AWG-U0BK8-03	3	7X0.386	0.38	0.89	6.4	67
	01108	0111-04C18AWG-U0BK8-03	4	7X0.386	0.38	0.89	6.9	80
	01109	0111-05C18AWG-U0BK8-03	5	7X0.386	0.38	1.01	7.7	100
	01110	0111-06C18AWG-U0BK8-03	6	7X0.386	0.38	1.01	8.5	114
	01111	0111-07C18AWG-U0BK8-03	7	7X0.386	0.38	1.01	8.5	120
	01112	0111-08C18AWG-U0BK8-03	8	7X0.386	0.38	1.01	9.2	140
	01113	0111-09C18AWG-U0BK8-03	9	7X0.386	0.38	1.01	9.8	159
	01114	0111-10C18AWG-U0BK8-03	10	7X0.386	0.38	1.27	11.1	181
	01115	0111-12C18AWG-U0BK8-03	12	7X0.386	0.38	1.27	11.4	205
	01116	0111-15C18AWG-U0BK8-03	15	7X0.386	0.38	1.27	12.5	247
	01117	0111-16C18AWG-U0BK8-03	16	7X0.386	0.38	1.27	12.5	260
	01118	0111-19C18AWG-U0BK8-03	19	7X0.386	0.38	1.27	13.1	295
	01119	0111-20C18AWG-U0BK8-03	20	7X0.386	0.38	1.27	13.8	315
	01120	0111-24C18AWG-U0BK8-03	24	7X0.386	0.38	1.27	15.1	364
	01121	0111-25C18AWG-U0BK8-03	25	7X0.386	0.38	1.27	15.1	375
	01122	0111-27C18AWG-U0BK8-03	27	7X0.386	0.38	1.52	15.9	418
	01123	0111-30C18AWG-U0BK8-03	30	7X0.386	0.38	1.52	16.5	460
01124	0111-37C18AWG-U0BK8-03	37	7X0.386	0.38	1.52	17.7	548	
01125	0111-48C18AWG-U0BK8-03	48	7X0.386	0.38	1.52	20.0	688	
01126	0111-61C18AWG-U0BK8-03	61	7X0.386	0.38	1.52	21.7	848	

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL)

PVC INSULATED MULTICONDUCTOR

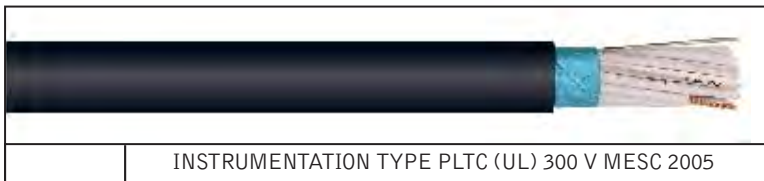
UNSHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
16	01127	0111-02C16AWG-U0BK8-03	2	7X0.488	0.38	0.89	6.6	71
	01128	0111-03C16AWG-U0BK8-03	3	7X0.488	0.38	0.89	7.0	88
	01129	0111-04C16AWG-U0BK8-03	4	7X0.488	0.38	1.01	7.8	110
	01130	0111-05C16AWG-U0BK8-03	5	7X0.488	0.38	1.01	8.5	133
	01131	0111-06C16AWG-U0BK8-03	6	7X0.488	0.38	1.01	9.4	152
	01132	0111-07C16AWG-U0BK8-03	7	7X0.488	0.38	1.01	9.4	162
	01133	0111-08C16AWG-U0BK8-03	8	7X0.488	0.38	1.27	10.7	201
	01134	0111-09C16AWG-U0BK8-03	9	7X0.488	0.38	1.27	11.4	228
	01135	0111-10C16AWG-U0BK8-03	10	7X0.488	0.38	1.27	12.3	241
	01136	0111-12C16AWG-U0BK8-03	12	7X0.488	0.38	1.27	12.6	274
	01137	0111-15C16AWG-U0BK8-03	15	7X0.488	0.38	1.27	13.9	335
	01138	0111-16C16AWG-U0BK8-03	16	7X0.488	0.38	1.27	13.9	353
	01139	0111-19C16AWG-U0BK8-03	19	7X0.488	0.38	1.27	14.6	404
	01140	0111-20C16AWG-U0BK8-03	20	7X0.488	0.38	1.27	15.4	432
	01141	0111-24C16AWG-U0BK8-03	24	7X0.488	0.38	1.52	17.4	522
	01142	0111-25C16AWG-U0BK8-03	25	7X0.488	0.38	1.52	17.4	538
	01143	0111-27C16AWG-U0BK8-03	27	7X0.488	0.38	1.52	17.8	576
	01144	0111-30C16AWG-U0BK8-03	30	7X0.488	0.38	1.52	18.4	630
	01145	0111-37C16AWG-U0BK8-03	37	7X0.488	0.38	1.52	19.8	758
01146	0111-48C16AWG-U0BK8-03	48	7X0.488	0.38	1.78	23.0	988	
01147	0111-61C16AWG-U0BK8-03	61	7X0.488	0.38	1.78	24.9	1217	

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
14	01148	0111-02C14AWG-U0BK8-03	2	7X0.615	0.51	1.01	8.2	111
	01149	0111-03C14AWG-U0BK8-03	3	7X0.615	0.51	1.01	8.7	137
	01150	0111-04C14AWG-U0BK8-03	4	7X0.615	0.51	1.01	9.4	166
	01151	0111-05C14AWG-U0BK8-03	5	7X0.615	0.51	1.27	10.8	215
	01152	0111-06C14AWG-U0BK8-03	6	7X0.615	0.51	1.27	11.9	243
	01153	0111-07C14AWG-U0BK8-03	7	7X0.615	0.51	1.27	11.9	259
	01154	0111-08C14AWG-U0BK8-03	8	7X0.615	0.51	1.27	12.9	301
	01155	0111-09C14AWG-U0BK8-03	9	7X0.615	0.51	1.27	13.7	340
	01156	0111-10C14AWG-U0BK8-03	10	7X0.615	0.51	1.27	14.9	360
	01157	0111-12C14AWG-U0BK8-03	12	7X0.615	0.51	1.27	15.3	414
	01158	0111-15C14AWG-U0BK8-03	15	7X0.615	0.51	1.52	17.4	528
	01159	0111-16C14AWG-U0BK8-03	16	7X0.615	0.51	1.52	17.4	556
	01160	0111-19C14AWG-U0BK8-03	19	7X0.615	0.51	1.52	18.3	638
	01161	0111-20C14AWG-U0BK8-03	20	7X0.615	0.51	1.52	19.3	681
	01162	0111-24C14AWG-U0BK8-03	24	7X0.615	0.51	1.52	21.3	796
	01163	0111-25C14AWG-U0BK8-03	25	7X0.615	0.51	1.52	21.3	822
	01164	0111-27C14AWG-U0BK8-03	27	7X0.615	0.51	1.52	21.8	880
	01165	0111-30C14AWG-U0BK8-03	30	7X0.615	0.51	1.78	23.1	997
	01166	0111-37C14AWG-U0BK8-03	37	7X0.615	0.51	1.78	24.8	1196
01167	0111-48C14AWG-U0BK8-03	48	7X0.615	0.51	1.78	28.3	1523	
01168	0111-61C14AWG-U0BK8-03	61	7X0.615	0.51	1.78	30.8	1890	

**INSTRUMENTATION / PROCESS CONTROL CABLES
POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL)
PVC INSULATED MULTICONDUCTOR
SHIELDED CABLES**

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Industrial signalling and process control circuit in dry or wet locations. The cable can be used in cable trays, conduit or direct burial application.

- Conductor** : Plain copper to ASTM B3, stranded to class B of ASTM B8.
- Insulation** : Flame retardant PVC rated 90°C as per UL13.
- Shielding** : Insulated cores are cabled and shielded with aluminium polyester tape for 100% coverage with a tinned copper drain wire.
- Jacket** : Extruded black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL) PVC INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
20	02085	0211-02C 20AWG-U0BK8-03	2	7x0.307	0.38	0.89	5.9	50
	02086	0211-03C 20AWG-U0BK8-03	3	7x0.307	0.38	0.89	6.1	57
	02087	0211-04C 20AWG-U0BK8-03	4	7x0.307	0.38	0.89	6.6	64
	02088	0211-05C 20AWG-U0BK8-03	5	7x0.307	0.38	1.01	7.4	81
	02089	0211-06C 20AWG-U0BK8-03	6	7x0.307	0.38	1.01	7.9	89
	02090	0211-07C 20AWG-U0BK8-03	7	7x0.307	0.38	1.01	7.9	93
	02091	0211-08C 20AWG-U0BK8-03	8	7x0.307	0.38	1.01	8.5	107
	02092	0211-09C 20AWG-U0BK8-03	9	7x0.307	0.38	1.01	9.0	121
	02093	0211-10C 20AWG-U0BK8-03	10	7x0.307	0.38	1.01	9.7	127
	02094	0211-12C 20AWG-U0BK8-03	12	7x0.307	0.38	1.27	10.5	157
	02095	0211-15C 20AWG-U0BK8-03	15	7x0.307	0.38	1.27	11.5	190
	02096	0211-16C 20AWG-U0BK8-03	16	7x0.307	0.38	1.27	11.5	198
	02097	0211-19C 20AWG-U0BK8-03	19	7x0.307	0.38	1.27	12.0	222
	02098	0211-20C 20AWG-U0BK8-03	20	7x0.307	0.38	1.27	12.6	237
	02099	0211-24C 20AWG-U0BK8-03	24	7x0.307	0.38	1.27	13.8	274
	02100	0211-25C 20AWG-U0BK8-03	25	7x0.307	0.38	1.27	13.8	282
	02101	0211-27C 20AWG-U0BK8-03	27	7x0.307	0.38	1.27	14.1	300
02102	0211-30C 20AWG-U0BK8-03	30	7x0.307	0.38	1.27	14.5	325	
02103	0211-37C 20AWG-U0BK8-03	37	7x0.307	0.38	1.52	16.1	408	
02104	0211-48C 20AWG-U0BK8-03	48	7x0.307	0.38	1.52	18.1	508	
02105	0211-61C 20AWG-U0BK8-03	61	7x0.307	0.38	15.2	19.7	626	

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
18	02106	0211-02C 18AWG-U 0BK8-03	2	7X0.386	0.38	0.89	6.3	60
	02107	0211-03C 18AWG-U 0BK8-03	3	7X0.386	0.38	0.89	6.7	73
	02108	0211-04C 18AWG-U 0BK8-03	4	7X0.386	0.38	1.01	7.4	86
	02109	0211-05C 18AWG-U 0BK8-03	5	7X0.386	0.38	1.01	8.0	103
	02110	0211-06C 18AWG-U 0BK8-03	6	7X0.386	0.38	1.01	8.6	114
	02111	0211-07C 18AWG-U 0BK8-03	7	7X0.386	0.38	1.01	8.6	121
	02112	0211-08C 18AWG-U 0BK8-03	8	7X0.386	0.38	1.01	9.3	140
	02113	0211-09C 18AWG-U 0BK8-03	9	7X0.386	0.38	1.27	10.4	172
	02114	0211-10C 18AWG-U 0BK8-03	10	7X0.386	0.38	1.27	11.2	181
	02115	0211-12C 18AWG-U 0BK8-03	12	7X0.386	0.38	1.27	11.5	205
	02116	0211-15C 18AWG-U 0BK8-03	15	7X0.386	0.38	1.27	12.6	248
	02117	0211-16C 18AWG-U 0BK8-03	16	7X0.386	0.38	1.27	12.6	260
	02118	0211-19C 18AWG-U 0BK8-03	19	7X0.386	0.38	1.27	13.2	295
	02119	0211-20C 18AWG-U 0BK8-03	20	7X0.386	0.38	1.27	13.9	316
	02120	0211-24C 18AWG-U 0BK8-03	24	7X0.386	0.38	1.27	15.2	365
	02121	0211-25C 18AWG-U 0BK8-03	25	7X0.386	0.38	1.27	15.2	376
	02122	0211-27C 18AWG-U 0BK8-03	27	7X0.386	0.38	1.52	16.0	419
02123	0211-30C 18AWG-U 0BK8-03	30	7X0.386	0.38	1.52	16.6	460	
02124	0211-37C 18AWG-U 0BK8-03	37	7X0.386	0.38	1.52	17.8	549	
02125	0211-48C 18AWG-U 0BK8-03	48	7X0.386	0.38	1.52	20.1	689	
02126	0211-61C 18AWG-U 0BK8-03	61	7X0.386	0.38	1.52	21.8	848	

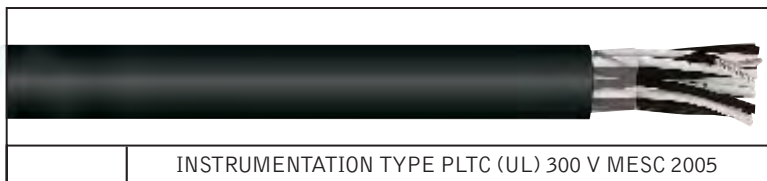
INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS TYPE PLTC (UL) PVC INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
16	02127	0211-02C16AWG-U0BK8-03	2	7X0.488	0.38	0.89	6.9	77
	02128	0211-03C16AWG-U0BK8-03	3	7X0.488	0.38	1.01	7.6	99
	02129	0211-04C16AWG-U0BK8-03	4	7X0.488	0.38	1.01	8.1	113
	02130	0211-05C16AWG-U0BK8-03	5	7X0.488	0.38	1.01	8.8	136
	02131	0211-06C16AWG-U0BK8-03	6	7X0.488	0.38	1.01	9.5	152
	02132	0211-07C16AWG-U0BK8-03	7	7X0.488	0.38	1.01	9.5	162
	02133	0211-08C16AWG-U0BK8-03	8	7X0.488	0.38	1.27	10.8	202
	02134	0211-09C16AWG-U0BK8-03	9	7X0.488	0.38	1.27	11.5	229
	02135	0211-10C16AWG-U0BK8-03	10	7X0.488	0.38	1.27	12.4	242
	02136	0211-12C16AWG-U0BK8-03	12	7X0.488	0.38	1.27	12.7	275
	02137	0211-15C16AWG-U0BK8-03	15	7X0.488	0.38	1.27	14.0	336
	02138	0211-16C16AWG-U0BK8-03	16	7X0.488	0.38	1.27	14.0	354
	02139	0211-19C16AWG-U0BK8-03	19	7X0.488	0.38	1.27	14.7	405
	02140	0211-20C16AWG-U0BK8-03	20	7X0.488	0.38	1.52	16.0	452
	02141	0211-24C16AWG-U0BK8-03	24	7X0.488	0.38	1.52	17.5	523
	02142	0211-25C16AWG-U0BK8-03	25	7X0.488	0.38	1.52	17.5	539
	02143	0211-27C16AWG-U0BK8-03	27	7X0.488	0.38	1.52	17.9	576
02144	0211-30C16AWG-U0BK8-03	30	7X0.488	0.38	1.52	18.5	631	
02145	0211-37C16AWG-U0BK8-03	37	7X0.488	0.38	1.52	19.9	758	
02146	0211-48C16AWG-U0BK8-03	48	7X0.488	0.38	1.78	23.1	989	
02147	0211-61C16AWG-U0BK8-03	61	7X0.488	0.38	1.78	25.0	1218	

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter no. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
14	02148	0211-02C14AWG-U0BK8-03	2	7X0.615	0.51	1.01	8.5	118
	02149	0211-03C14AWG-U0BK8-03	3	7X0.615	0.51	1.01	9.0	145
	02150	0211-04C14AWG-U0BK8-03	4	7X0.615	0.51	1.01	9.7	169
	02151	0211-05C14AWG-U0BK8-03	5	7X0.615	0.51	1.27	11.1	218
	02152	0211-06C14AWG-U0BK8-03	6	7X0.615	0.51	1.27	12.0	244
	02153	0211-07C14AWG-U0BK8-03	7	7X0.615	0.51	1.27	12.0	260
	02154	0211-08C14AWG-U0BK8-03	8	7X0.615	0.51	1.27	13.0	302
	02155	0211-09C14AWG-U0BK8-03	9	7X0.615	0.51	1.27	13.8	341
	02156	0211-10C14AWG-U0BK8-03	10	7X0.615	0.51	1.27	15.0	361
	02157	0211-12C14AWG-U0BK8-03	12	7X0.615	0.51	1.27	15.4	414
	02158	0211-15C14AWG-U0BK8-03	15	7X0.615	0.51	1.52	17.5	529
	02159	0211-16C14AWG-U0BK8-03	16	7X0.615	0.51	1.52	17.5	557
	02160	0211-19C14AWG-U0BK8-03	19	7X0.615	0.51	1.52	18.4	639
	02161	0211-20C14AWG-U0BK8-03	20	7X0.615	0.51	1.52	19.4	682
	02162	0211-24C14AWG-U0BK8-03	24	7X0.615	0.51	1.52	21.4	797
	02163	0211-25C14AWG-U0BK8-03	25	7X0.615	0.51	1.52	21.4	823
	02164	0211-27C14AWG-U0BK8-03	27	7X0.615	0.51	1.52	21.9	881
02165	0211-30C14AWG-U0BK8-03	30	7X0.615	0.51	1.78	23.2	998	
02166	0211-37C14AWG-U0BK8-03	37	7X0.615	0.51	1.78	24.9	1197	
02167	0211-48C14AWG-U0BK8-03	48	7X0.615	0.51	1.78	28.4	1524	
02168	0211-61C14AWG-U0BK8-03	61	7X0.615	0.51	1.78	30.9	1891	

**INSTRUMENTATION / PROCESS CONTROL CABLES
POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC)
XLPE INSULATED MULTI PAIR / MULTI TRIAD
UNSHIELDED**

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.

- Conductor** : Tinned copper to ASTM B33 & stranded to Class B / Class C of ASTM B8.
- Insulation** : Flame retardant XLPE to ICEA S-82-552.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Assembly** : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is covered with a polyester tape if required.
- Jacket** : Extruded black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC)

XLPE INSULATED MULTI PAIR / MULTI TRIAD

UNSHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01169	0124-01P18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.2	45
	01170	0124-02P18AWG-U0BK8-03	2	7 X 0.386	0.38	1.01	9.7	85
	01171	0124-03P18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	11.0	120
	01172	0124-04P18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	11.8	145
	01173	0124-06P18AWG-U0BK8-03	6	7 X 0.386	0.38	1.27	13.6	195
	01174	0124-08P18AWG-U0BK8-03	8	7 X 0.386	0.38	1.27	14.3	240
	01175	0124-12P18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	17.4	355
	01176	0124-16P18AWG-U0BK8-03	16	7 X 0.386	0.38	1.52	19.5	445
	01177	0124-20P18AWG-U0BK8-03	20	7 X 0.386	0.38	1.52	21.4	540
	01178	0124-24P18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	23.7	655
	01179	0124-32P18AWG-U0BK8-03	32	7 X 0.386	0.38	1.78	26.7	840
	01180	0124-36P18AWG-U0BK8-03	36	7 X 0.386	0.38	1.78	28.1	925
	01181	0124-40P18AWG-U0BK8-03	40	7 X 0.386	0.38	1.78	29.4	1015
	01182	0124-50P18AWG-U0BK8-03	50	7 X 0.386	0.38	2.03	32.9	1270

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01183	0124-01P16AWG-U0BK8-03	1	7 X 0.488	0.38	0.89	6.8	60
	01184	0124-02P16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	11.3	125
	01185	0124-03P16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	12.2	160
	01186	0124-04P16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	13.1	195
	01187	0124-06P16AWG-U0BK8-03	6	7 X 0.488	0.38	1.27	15.2	265
	01188	0124-08P16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	16.5	345
	01189	0124-12P16AWG-U0BK8-03	12	7 X 0.488	0.38	1.52	19.4	485
	01190	0124-16P16AWG-U0BK8-03	16	7 X 0.488	0.38	1.52	21.9	620
	01191	0124-20P16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	24.6	780
	01192	0124-24P16AWG-U0BK8-03	24	7 X 0.488	0.38	1.78	26.6	915
	01193	0124-32P16AWG-U0BK8-03	32	7 X 0.488	0.38	1.78	30.1	1175
	01194	0124-36P16AWG-U0BK8-03	36	7 X 0.488	0.38	1.78	31.7	1305
	01195	0124-40P16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	33.7	1470
	01196	0124-50P16AWG-U0BK8-03	50	7 X 0.488	0.38	2.03	37.1	1795

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01197	0124-01P14AWG-U0BK8-03	1	19 X 0.373	0.51	1.01	8.3	85
	01198	0124-02P14AWG-U0BK8-03	2	19 X 0.373	0.51	1.27	13.6	175
	01199	0124-03P14AWG-U0BK8-03	3	19 X 0.373	0.51	1.27	14.8	230
	01200	0124-04P14AWG-U0BK8-03	4	19 X 0.373	0.51	1.52	16.5	300
	01201	0124-06P14AWG-U0BK8-03	6	19 X 0.373	0.51	1.52	19.1	415
	01202	0124-08P14AWG-U0BK8-03	8	19 X 0.373	0.51	1.52	20.2	515
	01203	0124-12P14AWG-U0BK8-03	12	19 X 0.373	0.51	1.78	24.5	760
	01204	0124-16P14AWG-U0BK8-03	16	19 X 0.373	0.51	1.78	27.6	975
	01205	0124-20P14AWG-U0BK8-03	20	19 X 0.373	0.51	1.78	30.4	1185
	01206	0124-24P14AWG-U0BK8-03	24	19 X 0.373	0.51	2.03	33.5	1430
	01207	0124-32P14AWG-U0BK8-03	32	19 X 0.373	0.51	2.03	37.9	1850
	01208	0124-36P14AWG-U0BK8-03	36	19 X 0.373	0.51	2.03	40.0	2055
	01209	0124-40P14AWG-U0BK8-03	40	19 X 0.373	0.51	2.03	41.9	2260

**INSTRUMENTATION / PROCESS CONTROL CABLES
POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC)
XLPE INSULATED MULTI PAIR / MULTI TRIAD
UNSHIELDED**

TRIPLES

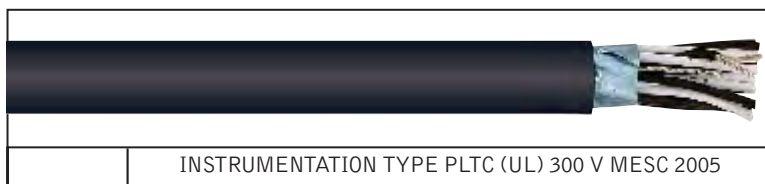
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01210	0124-01T18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.5	55
	01211	0124-02T18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	11.6	125
	01212	0124-03T18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	12.3	160
	01213	0124-04T18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	13.4	195
	01214	0124-06T18AWG-U0BK8-03	6	7 X 0.386	0.38	1.52	16.7	290
	01215	0124-08T18AWG-U0BK8-03	8	7 X 0.386	0.38	1.52	17.7	360
	01216	0124-12T18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	20.8	495
	01217	0124-16T18AWG-U0BK8-03	16	7 X 0.386	0.38	1.78	24.1	665
	01218	0124-20T18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	26.4	795
	01219	0124-24T18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	28.6	935
	01220	0124-32T18AWG-U0BK8-03	32	7 X 0.386	0.38	2.03	32.9	1235
	01221	0124-36T18AWG-U0BK8-03	36	7 X 0.386	0.38	2.03	34.6	1365
	01222	0124-40T18AWG-U0BK8-03	40	7 X 0.386	0.38	2.03	36.2	1495
01223	0124-48T18AWG-U0BK8-03	48	7 X 0.386	0.38	2.03	39.3	1760	

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01224	0124-01T16AWG-U0BK8-03	1	7 X 0.488	0.38	1.01	7.4	80
	01225	0124-02T16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	12.9	165
	01226	0124-03T16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	13.7	210
	01227	0124-04T16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	14.9	265
	01228	0124-06T16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	18.7	390
	01229	0124-08T16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	19.8	490
	01230	0124-12T16AWG-U0BK8-03	12	7 X 0.488	0.38	1.78	24.0	720
	01231	0124-16T16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	27.1	920
	01232	0124-20T16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	29.8	1115
	01233	0124-24T16AWG-U0BK8-03	24	7 X 0.488	0.38	2.03	32.8	1350
	01234	0124-32T16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	37.1	1735
	01235	0124-36T16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	39.1	1930
	01236	0124-40T16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	41.0	2120

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01237	0124-01T14AWG-U0BK8-03	1	19 X 0.373	0.51	1.01	8.8	110
	01238	0124-02T14AWG-U0BK8-03	2	19 X 0.373	0.51	1.52	16.2	250
	01239	0124-03T14AWG-U0BK8-03	3	19 X 0.373	0.51	1.52	17.3	335
	01240	0124-04T14AWG-U0BK8-03	4	19 X 0.373	0.51	1.52	18.8	415
	01241	0124-06T14AWG-U0BK8-03	6	19 X 0.373	0.51	1.78	23.5	610
	01242	0124-08T14AWG-U0BK8-03	8	19 X 0.373	0.51	1.78	24.9	765
	01243	0124-12T14AWG-U0BK8-03	12	19 X 0.373	0.51	1.78	29.6	1085
	01244	0124-16T14AWG-U0BK8-03	16	19 X 0.373	0.51	2.03	34.1	1440
	01245	0124-20T14AWG-U0BK8-03	20	19 X 0.373	0.51	2.03	37.6	1755
	01246	0124-24T14AWG-U0BK8-03	24	19 X 0.373	0.51	2.03	40.7	2060

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) XLPE INSULATED MULTI PAIR / MULTI TRIAD OVERALL SHIELDED

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.

Conductor	: Tinned copper to ASTM B33 & stranded to class B of ASTM B8.
Insulation	: Flame retardant XLPE to ICEA S-82-552.
Pair Colour Code	: White and black with pair number on white conductor.
Triple Colour Code	: White, black and red with triple number on white conductor.
Pairs/Triples Twisting	: All pairs / triples are twisted to counter electromagnetic noise.
Overall Shielding	: Twisted pairs/ triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
Jacket	: Extruded black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) XLPE INSULATED MULTI PAIR / MULTI TRIAD OVER-ALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	02169	0224-01P18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.3	50
	02170	0224-02P18AWG-U0BK8-03	2	7 X 0.386	0.38	1.01	9.8	90
	02171	0224-03P18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	11.7	125
	02172	0224-04P18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	11.9	150
	02173	0224-06P18AWG-U0BK8-03	6	7 X 0.386	0.38	1.27	13.7	200
	02174	0224-08P18AWG-U0BK8-03	8	7 X 0.386	0.38	1.27	14.4	240
	02175	0224-12P18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	17.5	350
	02176	0224-16P18AWG-U0BK8-03	16	7 X 0.386	0.38	1.52	19.6	445
	02177	0224-20P18AWG-U0BK8-03	20	7 X 0.386	0.38	1.52	21.5	530
	02178	0224-24P18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	23.8	645
	02179	0224-32P18AWG-U0BK8-03	32	7 X 0.386	0.38	1.78	26.8	825
	02180	0224-36P18AWG-U0BK8-03	36	7 X 0.386	0.38	1.78	28.2	910
	02181	0224-40P18AWG-U0BK8-03	40	7 X 0.386	0.38	1.78	29.5	995
02182	0224-50P18AWG-U0BK8-03	50	7 X 0.386	0.38	2.03	33.0	1245	

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	02183	0224-01P16AWG-U0BK8-03	1	7 X 0.488	0.38	0.89	6.9	65
	02184	0224-02P16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	11.4	130
	02185	0224-03P16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	12.3	165
	02186	0224-04P16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	13.2	200
	02187	0224-06P16AWG-U0BK8-03	6	7 X 0.488	0.38	1.27	15.3	265
	02188	0224-08P16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	16.6	345
	02189	0224-12P16AWG-U0BK8-03	12	7 X 0.488	0.38	1.52	19.5	480
	02190	0224-16P16AWG-U0BK8-03	16	7 X 0.488	0.38	1.52	22.0	610
	02191	0224-20P16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	24.7	770
	02192	0224-24P16AWG-U0BK8-03	24	7 X 0.488	0.38	1.78	26.7	900
	02193	0224-32P16AWG-U0BK8-03	32	7 X 0.488	0.38	1.78	30.2	1155
	02194	0224-36P16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	32.3	1315
	02195	0224-40P16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	33.8	1440
	02196	0224-50P16AWG-U0BK8-03	50	7 X 0.488	0.38	2.03	37.2	1755

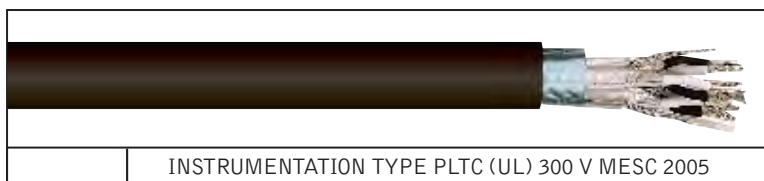
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SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	02197	0224-01T18AWG-U0BK803	1	7 X 0.386	0.38	0.89	6.6	60
	02198	0224-02T18AWG-U0BK803	2	7 X 0.386	0.38	1.27	11.7	130
	02199	0224-03T18AWG-U0BK803	3	7 X 0.386	0.38	1.27	12.4	160
	02200	0224-04T18AWG-U0BK803	4	7 X 0.386	0.38	1.27	13.5	200
	02201	0224-06T18AWG-U0BK803	6	7 X 0.386	0.38	1.52	16.8	290
	02202	0224-08T18AWG-U0BK803	8	7 X 0.386	0.38	1.52	17.8	355
	02203	0224-12T18AWG-U0BK803	12	7 X 0.386	0.38	1.52	20.9	490
	02204	0224-16T18AWG-U0BK803	16	7 X 0.386	0.38	1.78	24.2	655
	02205	0224-20T18AWG-U0BK803	20	7 X 0.386	0.38	1.78	26.5	780
	02206	0224-24T18AWG-U0BK803	24	7 X 0.386	0.38	1.78	28.7	915
	02207	0224-32T18AWG-U0BK803	32	7 X 0.386	0.38	2.03	33.0	1210
	02208	0224-36T18AWG-U0BK803	36	7 X 0.386	0.38	2.03	34.7	1335

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	02209	0224-01T16AWG-U0BK8-03	1	7 X 0.488	0.38	1.01	7.5	85
	02210	0224-02T16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	13.0	170
	02211	0224-03T16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	13.8	215
	02212	0224-04T16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	15.0	265
	02213	0224-06T16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	18.8	390
	02214	0224-08T16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	19.9	485
	02215	0224-12T16AWG-U0BK8-03	12	7 X 0.488	0.38	1.78	24.1	710
	02216	0224-16T16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	27.2	905
	02217	0224-20T16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	29.9	1095
	02218	0224-24T16AWG-U0BK8-03	24	7 X 0.488	0.38	2.03	32.9	1325
	02219	0224-32T16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	37.2	1695
	02220	0224-36T16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	39.2	1885

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) XLPE INSULATED MULTI PAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.

Conductor	: Tinned copper to ASTM B33 & stranded to class B of ASTM B8.
Insulation	: Flame retardant XLPE to ICEA S-82-552.
Pair Colour Code	: White and black with pair number on white conductor.
Triple Colour Code	: White, black and red with triple number on white conductor.
Pairs/Triples Twisting	: All pairs / triples are twisted to counter electromagnetic noise.
Individual and Overall Shielding	: Each pair / triple is shielded with aluminium polyester tape and a tinned copper drain wire for maximum electrostatic noise and crosstalk rejection. All pair/triple shields are electrically isolated from each other. Individually shielded pairs/triples cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
Jacket	: Extruded Black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) XLPE INSULATED MULTI PAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg./Km
18	04001	0424-02P18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	10.8	115
	04002	0424-03P18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	11.7	145
	04003	0424-04P18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	12.5	180
	04004	0424-06P18AWG-U0BK8-03	6	7 X 0.386	0.38	1.27	14.5	240
	04005	0424-08P18AWG-U0BK8-03	8	7 X 0.386	0.38	1.27	15.3	295
	04006	0424-12P18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	18.5	430
	04007	0424-16P18AWG-U0BK8-03	16	7 X 0.386	0.38	1.52	20.8	545
	04008	0424-20P18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	23.4	690
	04009	0424-24P18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	25.2	805
	04010	0424-32P18AWG-U0BK8-03	32	7 X 0.386	0.38	1.78	28.5	1030
	04011	0424-36P18AWG-U0BK8-03	36	7 X 0.386	0.38	1.78	30.0	1140
	04012	0424-40P18AWG-U0BK8-03	40	7 X 0.386	0.38	1.78	31.4	1250
	04013	0424-50P18AWG-U0BK8-03	50	7 X 0.386	0.38	2.03	35.1	1565

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg./Km
16	04014	0424-02P16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	11.9	150
	04015	0424-03P16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	12.9	195
	04016	0424-04P16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	13.9	235
	04017	0424-06P16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	16.6	340
	04018	0424-08P16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	17.5	420
	04019	0424-12P16AWG-U0BK8-03	12	7 X 0.488	0.38	1.52	20.6	590
	04020	0424-16P16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	23.7	785
	04021	0424-20P16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	26.1	950
	04022	0424-24P16AWG-U0BK8-03	24	7 X 0.488	0.38	1.78	28.2	1115
	04023	0424-32P16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	32.4	1475
	04024	0424-36P16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	34.1	1635
	04025	0424-40P16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	35.7	1800
	04026	0424-50P16AWG-U0BK8-03	50	7 X 0.488	0.38	2.03	39.3	2200

TRIPLES

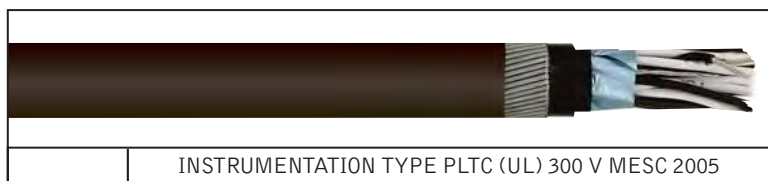
SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg./Km
18	04027	0424-02T18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	12.3	145
	04028	0424-03T18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	13.1	185
	04029	0424-04T18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	14.2	225
	04030	0424-06T18AWG-U0BK8-03	6	7 X 0.386	0.38	1.52	17.8	335
	04031	0424-08T18AWG-U0BK8-03	8	7 X 0.386	0.38	1.52	18.7	405
	04032	0424-12T18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	22.1	570
	04033	0424-16T18AWG-U0BK8-03	16	7 X 0.386	0.38	1.78	25.5	755
	04034	0424-20T18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	28.1	920
	04035	0424-24T18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	30.4	1075
	04036	0424-32T18AWG-U0BK8-03	32	7 X 0.386	0.38	2.03	34.9	1415
	04037	0424-36T18AWG-U0BK8-03	36	7 X 0.386	0.38	2.03	36.8	1575

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg./Km
16	04038	0424-02T16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	13.6	190
	04039	0424-03T16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	14.5	250
	04040	0424-04T16AWG-U0BK8-03	4	7 X 0.488	0.38	1.52	16.2	325
	04041	0424-06T16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	19.7	450
	04042	0424-08T16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	20.9	565
	04043	0424-12T16AWG-U0BK8-03	12	7 X 0.488	0.38	1.78	25.3	830
	04044	0424-16T16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	28.5	1060
	04045	0424-20T16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	31.4	1290
	04046	0424-24T16AWG-U0BK8-03	24	7 X 0.488	0.38	2.03	34.6	1560
	04047	0424-32T16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	39.2	2015
	04048	0424-36T16AWG-U0BK8-03	36	7 X 0.488	0.38	2.79	42.8	2380

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) WIRE ARMoured XLPE ISULATED MULTI PAIR / TRIAD OVERALL SHIELDED

Temperature range : - 40°C to + 90°C

Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location. The wire armour provides longitudinal strength for use as a messenger cable or for support in vertical drops (NEC SECTION 300-19) and provides the protection against the mechanical damage.

Construction

Conductor	: Tinned Copper to ASTM B33 & Stranded to class B of ASTM B8.
Insulation	: Flame retardant XLPE to ICEA S-82-552.
Pair colour code	: White & Black with pair number on white conductor.
Triple colour code	: White, Black & Red with triple number on white conductor.
Pairs/Triples Twisting	: All pairs / triples are twisted to counter electromagnetic noise.
Over-all shielding	: Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
Inner Jacket	: Extruded black PVC as per UL13.
Wire Armour	: A serving of round galvanised steel wires is applied with 90% minimum coverage.
Outer Jacket	: Extruded black PVC as per UL13 is oil and sun light resistant and passes flame test as per IEEE-383 (70000 BTU).

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) WIRE ARMoured XLPE INSULATED MULTI PAIR / TRIAD OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs Nos.	Strands X diameter No X mm	Insulation thickness mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	02619	0224-01P18AWG-W0BK8-03	1	7 x 0.386	0.38	0.89	6.2	0.9	8.0	1.27	10.7	234
	02620	0224-02P18AWG-W0BK8-03	2	7 x 0.386	0.38	1.01	9.3	0.9	11.1	1.27	13.8	348
	02621	0224-04P18AWG-W0BK8-03	4	7 x 0.386	0.38	1.27	11.0	1.25	13.5	1.52	16.8	567
	02622	0224-06P18AWG-W0BK8-03	6	7 x 0.386	0.38	1.27	13.6	1.25	16.1	1.52	19.3	707
	02623	0224-08P18AWG-W0BK8-03	8	7 x 0.386	0.38	1.27	14.3	1.25	16.8	1.52	20.1	778
	02624	0224-10P18AWG-W0BK8-03	10	7 x 0.386	0.38	1.52	16.2	1.25	18.7	1.52	21.9	906
	02625	0224-12P18AWG-W0BK8-03	12	7 x 0.386	0.38	1.52	17.4	1.6	19.9	1.78	23.7	1025
	02626	0224-16P18AWG-W0BK8-03	16	7 x 0.386	0.38	1.52	19.6	1.6	22.8	1.78	26.5	1349
	02627	0224-20P18AWG-W0BK8-03	20	7 x 0.386	0.38	1.52	21.5	1.6	24.7	1.78	28.4	1512
	02628	0224-24P18AWG-W0BK8-03	24	7 x 0.386	0.38	1.78	23.7	1.6	26.9	1.78	30.7	1745
02629	0224-36P18AWG-W0BK8-03	36	7 x 0.386	0.38	1.78	28.2	2.0	32.2	2.03	36.4	2477	

SIZE (AWG)	Order No.	MESC Code	Pairs Nos.	Strands X diameter No X mm	Insulation thickness mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	02630	0224-01P16AWG-W0BK8-03	1	7 x 0.488	0.38	0.89	6.8	0.9	8.6	1.27	11.3	265
	02631	0224-02P16AWG-W0BK8-03	2	7 x 0.488	0.38	1.27	10.8	1.25	13.3	1.52	16.6	537
	02632	0224-04P16AWG-W0BK8-03	4	7 x 0.488	0.38	1.27	12.2	1.25	14.7	1.52	18.0	658
	02633	0224-06P16AWG-W0BK8-03	6	7 x 0.488	0.38	1.27	15.2	1.25	17.7	1.52	20.9	834
	02634	0224-08P16AWG-W0BK8-03	8	7 x 0.488	0.38	1.52	16.6	1.25	19.1	1.78	22.8	992
	02635	0224-10P16AWG-W0BK8-03	10	7 x 0.488	0.38	1.52	18.1	1.6	21.3	1.78	25.1	1256
	02636	0224-12P16AWG-W0BK8-03	12	7 x 0.488	0.38	1.52	19.5	1.6	22.7	1.78	26.5	1390
	02637	0224-16P16AWG-W0BK8-03	16	7 x 0.488	0.38	1.52	22.0	1.6	25.2	1.78	28.9	1618
	02638	0224-20P16AWG-W0BK8-03	20	7 x 0.488	0.38	1.78	24.7	1.6	27.9	1.78	31.7	1901
	02639	0224-24P16AWG-W0BK8-03	24	7 x 0.488	0.38	1.78	26.7	1.6	29.9	2.03	34.1	2163
02640	0224-36P16AWG-W0BK8-03	36	7 x 0.488	0.38	2.03	32.3	2.0	36.3	2.03	40.5	3114	

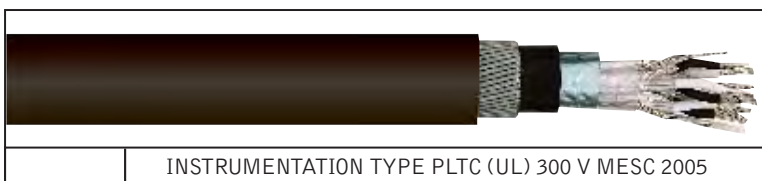
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SIZE (AWG)	Order No.	MESC Code	Triples Nos.	Strands X diameter No X mm	Insulation thickness mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	02641	0224-01T18AWG-W0BK8-03	1	7 x 0.386	0.38	0.89	6.5	0.9	8.3	1.27	11.1	253
	02642	0224-02T18AWG-W0BK8-03	2	7 x 0.386	0.38	1.27	11.7	1.25	14.2	1.52	17.4	567
	02643	0224-04T18AWG-W0BK8-03	4	7 x 0.386	0.38	1.27	13.0	1.25	15.5	1.52	18.8	688
	02644	0224-06T18AWG-W0BK8-03	6	7 x 0.386	0.38	1.52	16.8	1.25	19.3	1.78	23.1	934
	02645	0224-08T18AWG-W0BK8-03	8	7 x 0.386	0.38	1.52	17.7	1.6	20.9	1.78	24.7	1170
	02646	0224-10T18AWG-W0BK8-03	10	7 x 0.386	0.38	1.52	19.4	1.6	22.6	1.78	26.3	1326
	02647	0224-12T18AWG-W0BK8-03	12	7 x 0.386	0.38	1.52	20.9	1.6	24.1	1.78	27.9	1446
	02648	0224-16T18AWG-W0BK8-03	16	7 x 0.386	0.38	1.78	24.1	1.6	27.3	1.78	31.1	1754
	02649	0224-20T18AWG-W0BK8-03	20	7 x 0.386	0.38	1.78	26.5	1.6	29.7	2.03	34.0	2040
	02650	0224-24T18AWG-W0BK8-03	24	7 x 0.386	0.38	1.78	28.7	2.0	32.7	2.03	36.9	2513

SIZE (AWG)	Order No.	MESC Code	Triples Nos.	Strands X diameter No X mm	Insulation thickness mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	02651	0224-01T16AWG-W0BK8-03	1	7 x 0.488	0.38	1.01	7.4	0.9	9.2	1.27	12.0	301
	02652	0224-02T16AWG-W0BK8-03	2	7 x 0.488	0.38	1.27	12.9	1.25	15.4	1.52	18.7	650
	02653	0224-04T16AWG-W0BK8-03	4	7 x 0.488	0.38	1.27	14.5	1.25	17.01	1.52	20.3	803
	02654	0224-06T16AWG-W0BK8-03	6	7 x 0.488	0.38	1.52	18.8	1.6	22.0	1.78	25.7	1255
	02655	0224-08T16AWG-W0BK8-03	8	7 x 0.488	0.38	1.52	19.8	1.6	23.0	1.78	26.8	1396
	02656	0224-10T16AWG-W0BK8-03	10	7 x 0.488	0.38	1.52	21.8	1.6	25.0	1.78	28.7	1585
	02657	0224-12T16AWG-W0BK8-03	12	7 x 0.488	0.38	1.78	24.0	1.6	27.3	1.78	31.0	1812
	02658	0224-16T16AWG-W0BK8-03	16	7 x 0.488	0.38	1.78	27.1	1.6	30.3	2.03	34.6	2190
	02659	0224-20T16AWG-W0BK8-03	20	7 x 0.488	0.38	1.78	29.9	2.0	33.9	2.03	38.1	2768
	02660	0224-24T16AWG-W0BK8-03	24	7 x 0.488	0.38	2.03	32.9	2.0	36.9	2.03	41.1	3153

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) WIRE ARMoured XLPE INSULATED MULTI PAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location. The wire armour provides longitudinal strength for use as a messenger cable or for support in vertical drops (NEC SECTION 300-19) and provides the protection against the mechanical damage.

Construction

Conductor	: Tinned Copper to ASTM B33 & Stranded to class B of ASTM B8.
Insulation	: Flame retardant XLPE to ICEA S-82-552.
Pair colour code	: White & Black with pair number on white conductor.
Triple colour code	: White, Black & Red with triple number on white conductor.
Pairs/Triples Twisting	: All pairs / triples are twisted to counter electromagnetic noise.
Individual and Overall Shielding	: Each pair / triple is shielded with aluminium polyester tape and a tinned copper drain wire for maximum electrostatic noise and crosstalk rejection. All pair/triple shields are electrically isolated from each other. Individually shielded pairs/triples cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
Inner Jacket	: Extruded black PVC as per UL13.
Wire Armour	: A serving of round galvanised steel wires is applied with 90% minimum coverage.
Outer Jacket	: Extruded black PVC as per UL13 is oil and sunlight resistant and passes flame test as per IEEE-383 (70000 BTU).

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) WIRE ARMoured XLPE INSULATED MULTI PAIR / TRIAD INDIVIDUAL & OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Inner Jacket Thick mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	04258	0424-02P18AWG-W0BK8-03	2	7 x 0.386	0.38	1.27	10.3	0.9	12.1	1.27	14.9	409
	04259	0424-04P18AWG-W0BK8-03	4	7 x 0.386	0.38	1.27	11.6	0.9	13.4	1.52	16.7	521
	04260	0424-06P18AWG-W0BK8-03	6	7 x 0.386	0.38	1.27	14.4	1.25	16.9	1.52	20.1	782
	04261	0424-08P18AWG-W0BK8-03	8	7 x 0.386	0.38	1.27	15.2	1.25	17.7	1.52	20.9	868
	04262	0424-10P18AWG-W0BK8-03	10	7 x 0.386	0.38	1.52	17.2	1.25	19.7	1.78	23.4	1041
	04263	0424-12P18AWG-W0BK8-03	12	7 x 0.386	0.38	1.52	18.5	1.6	21.7	1.78	25.4	1302
	04264	0424-16P18AWG-W0BK8-03	16	7 x 0.386	0.38	1.52	20.8	1.6	24.0	1.78	27.7	1516
	04265	0424-20P18AWG-W0BK8-03	20	7 x 0.386	0.38	1.78	23.4	1.6	26.6	1.78	30.3	1784
	04266	0424-24P18AWG-W0BK8-03	24	7 x 0.386	0.38	1.78	25.2	2.0	28.8	2.03	32.7	2014
	04267	0424-36P18AWG-W0BK8-03	36	7 x 0.386	0.38	1.78	30.0	2.0	34.0	2.03	38.2	2845

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Inner Jacket Thick mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	04268	0424-02P16AWG-W0BK8-03	2	7 x 0.488	0.38	1.27	11.3	0.9	13.1	1.52	16.4	487
	04269	0424-04P16AWG-W0BK8-03	4	7 x 0.488	0.38	1.27	12.8	1.25	15.3	1.52	18.6	717
	04270	0424-06P16AWG-W0BK8-03	6	7 x 0.488	0.38	1.52	16.5	1.25	19.0	1.52	22.3	965
	04271	0424-08P16AWG-W0BK8-03	8	7 x 0.488	0.38	1.52	17.4	1.25	19.9	1.78	23.7	1108
	04272	0424-10P16AWG-W0BK8-03	10	7 x 0.488	0.38	1.52	19.1	1.6	22.3	1.78	26.0	1406
	04273	0424-12P16AWG-W0BK8-03	12	7 x 0.488	0.38	1.52	20.5	1.6	23.7	1.78	27.5	1562
	04274	0424-16P16AWG-W0BK8-03	16	7 x 0.488	0.38	1.78	23.7	1.6	26.9	1.78	30.7	1908
	04275	0424-20P16AWG-W0BK8-03	20	7 x 0.488	0.38	1.78	26.0	1.6	29.2	2.03	33.5	2217
	04276	0424-24P16AWG-W0BK8-03	24	7 x 0.488	0.38	1.78	28.1	2.0	32.1	2.03	36.4	2719
	04277	0424-36P16AWG-W0BK8-03	36	7 x 0.488	0.38	2.03	34.1	2.0	38.1	2.03	42.3	3593

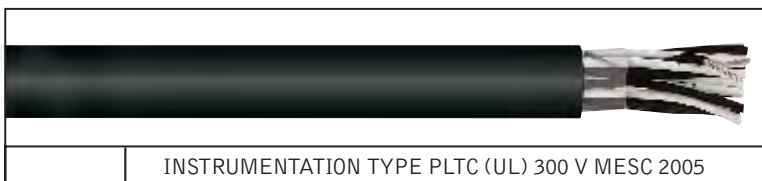
TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X dia No. X mm	Insulation thickness mm	Inner Jacket Thick mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	04278	0424-02T18AWG-W0BK8-03	2	7 x 0.386	0.38	1.27	12.3	1.25	14.8	1.52	18.0	611
	04279	0424-04T18AWG-W0BK8-03	4	7 x 0.386	0.38	1.27	13.7	1.25	16.2	1.52	19.5	637
	04280	0424-06T18AWG-W0BK8-03	6	7 x 0.386	0.38	1.52	17.7	1.25	20.2	1.78	24.0	1024
	04281	0424-08T18AWG-W0BK8-03	8	7 x 0.386	0.38	1.52	18.7	1.6	21.9	1.78	25.7	1278
	04282	0424-10T18AWG-W0BK8-03	10	7 x 0.386	0.38	1.52	20.5	1.6	23.7	1.78	27.4	1449
	04283	0424-12T18AWG-W0BK8-03	12	7 x 0.386	0.38	1.52	22.1	1.6	25.3	1.78	29.1	1601
	04284	0424-16T18AWG-W0BK8-03	16	7 x 0.386	0.38	1.78	25.5	1.6	28.7	2.03	33.0	1982
	04285	0424-20T18AWG-W0BK8-03	20	7 x 0.386	0.38	1.78	28.1	2.0	32.1	2.03	36.3	2497
	04286	0424-24T18AWG-W0BK8-03	24	7 x 0.386	0.38	1.78	30.4	2.0	34.4	2.03	38.6	2795

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X dia No. X mm	Insulation thickness mm	Inner Jacket Thick mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	04287	0424-02T16AWG-W0BK8-03	2	7 x 0.488	0.38	1.27	13.5	1.25	16.0	1.52	19.3	700
	04288	0424-04T16AWG-W0BK8-03	4	7 x 0.488	0.38	1.27	15.2	1.25	17.7	1.52	21.0	874
	04289	0424-06T16AWG-W0BK8-03	6	7 x 0.488	0.38	1.52	19.7	1.6	22.9	1.78	26.7	1365
	04290	0424-08T16AWG-W0BK8-03	8	7 x 0.488	0.38	1.52	20.8	1.6	24.0	1.78	27.8	1527
	04291	0424-10T16AWG-W0BK8-03	10	7 x 0.488	0.38	1.78	23.4	1.6	26.6	1.78	30.4	1796
	04292	0424-12T16AWG-W0BK8-03	12	7 x 0.488	0.38	1.78	25.2	1.6	28.4	2.03	32.7	2028
	04293	0424-16T16AWG-W0BK8-03	16	7 x 0.488	0.38	1.78	28.5	2.0	32.5	2.03	36.8	2673
	04294	0424-20T16AWG-W0BK8-03	20	7 x 0.488	0.38	1.78	31.4	2.0	35.4	2.03	39.7	3053
	04295	0424-24T16AWG-W0BK8-03	24	7 x 0.488	0.38	2.03	34.6	2.0	38.6	2.03	42.8	3510

**INSTRUMENTATION / PROCESS CONTROL CABLES
POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC)
PVC INSULATED MULTI PAIR / MULTI TRIAD
UNSHIELDED**

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.

- Conductor : Plain copper to ASTM B3, stranded to Class B / Class C of ASTM B8.
- Insulation : Flame retardant PVC rated 90°C as per UL13.
- Pair Colour Code : White and black with pair number on white conductor.
- Triple Colour Code : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting : All pairs / triples twisted to counter electromagnetic noise.
- Assembly : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is covered with a polyester tape if required.
- Jacket : Extruded black PVC as per UL13, oil and sunlight resistant passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC)

PVC INSULATED MULTIPAIR / MULTI TRIAD

UNSHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
20	01247	0111-01P20AWG-U0BK8-03	1	7 X 0.307	0.38	0.89	5.7	40
	01248	0111-02P20AWG-U0BK8-03	2	7 X 0.307	0.38	1.01	8.8	70
	01249	0111-03P20AWG-U0BK8-03	3	7 X 0.307	0.38	1.01	9.5	90
	01250	0111-04P20AWG-U0BK8-03	4	7 X 0.307	0.38	1.27	10.7	120
	01251	0111-06P20AWG-U0BK8-03	6	7 X 0.307	0.38	1.27	12.3	160
	01252	0111-08P20AWG-U0BK8-03	8	7 X 0.307	0.38	1.27	12.9	195
	01253	0111-12P20AWG-U0BK8-03	12	7 X 0.307	0.38	1.27	15.1	270
	01254	0111-16P20AWG-U0BK8-03	16	7 X 0.307	0.38	1.52	17.5	360
	01255	0111-20P20AWG-U0BK8-03	20	7 X 0.307	0.38	1.52	19.2	435
	01256	0111-24P20AWG-U0BK8-03	24	7 X 0.307	0.38	1.52	20.7	505
	01257	0111-32P20AWG-U0BK8-03	32	7 X 0.307	0.38	1.78	23.9	675
	01258	0111-36P20AWG-U0BK8-03	36	7 X 0.307	0.38	1.78	25.1	745
	01259	0111-40P20AWG-U0BK8-03	40	7 X 0.307	0.38	1.78	26.2	815
	01260	0111-50P20AWG-U0BK8-03	50	7 X 0.307	0.38	1.78	28.9	985

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01261	0111-01P18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.2	50
	01262	0111-02P18AWG-U0BK8-03	2	7 X 0.386	0.38	1.01	9.7	90
	01263	0111-03P18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	11.0	130
	01264	0111-04P18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	11.8	155
	01265	0111-06P18AWG-U0BK8-03	6	7 X 0.386	0.38	1.27	13.6	210
	01266	0111-08P18AWG-U0BK8-03	8	7 X 0.386	0.38	1.27	14.3	260
	01267	0111-12P18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	17.4	385
	01268	0111-16P18AWG-U0BK8-03	16	7 X 0.386	0.38	1.52	19.5	485
	01269	0111-20P18AWG-U0BK8-03	20	7 X 0.386	0.38	1.52	21.4	590
	01270	0111-24P18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	23.7	715
	01271	0111-32P18AWG-U0BK8-03	32	7 X 0.386	0.38	1.78	26.7	920
	01272	0111-36P18AWG-U0BK8-03	36	7 X 0.386	0.38	1.78	28.1	1020
	01273	0111-40P18AWG-U0BK8-03	40	7 X 0.386	0.38	1.78	29.4	1115
	01274	0111-50P18AWG-U0BK8-03	50	7 X 0.386	0.38	2.03	32.9	1400

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01275	0111-01P16AWG-U0BK8-03	1	7 X 0.488	0.38	0.89	6.8	60
	01276	0111-02P16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	11.3	130
	01277	0111-03P16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	12.2	170
	01278	0111-04P16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	13.1	205
	01279	0111-06P16AWG-U0BK8-03	6	7 X 0.488	0.38	1.27	15.2	285
	01280	0111-08P16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	16.5	370
	01281	0111-12P16AWG-U0BK8-03	12	7 X 0.488	0.38	1.52	19.4	520
	01282	0111-16P16AWG-U0BK8-03	16	7 X 0.488	0.38	1.52	21.9	670
	01283	0111-20P16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	24.6	840
	01284	0111-24P16AWG-U0BK8-03	24	7 X 0.488	0.38	1.78	26.6	985
	01285	0111-32P16AWG-U0BK8-03	32	7 X 0.488	0.38	1.78	30.1	1275
	01286	0111-36P16AWG-U0BK8-03	36	7 X 0.488	0.38	1.78	31.7	1415
	01287	0111-40P16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	33.7	1595
	01288	0111-50P16AWG-U0BK8-03	50	7 X 0.488	0.38	2.03	37.1	1950

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01289	0111-01P14AWG-U0BK8-03	1	19 X 0.373	0.51	1.01	8.3	90
	01290	0111-02P14AWG-U0BK8-03	2	19 X 0.373	0.51	1.27	13.6	185
	01291	0111-03P14AWG-U0BK8-03	3	19 X 0.373	0.51	1.27	14.8	245
	01292	0111-04P14AWG-U0BK8-03	4	19 X 0.373	0.51	1.52	16.5	320
	01293	0111-06P14AWG-U0BK8-03	6	19 X 0.373	0.51	1.52	19.1	445
	01294	0111-08P14AWG-U0BK8-03	8	19 X 0.373	0.51	1.52	20.2	555
	01295	0111-12P14AWG-U0BK8-03	12	19 X 0.373	0.51	1.78	24.5	820
	01296	0111-16P14AWG-U0BK8-03	16	19 X 0.373	0.51	1.78	27.6	1055
	01297	0111-20P14AWG-U0BK8-03	20	19 X 0.373	0.51	1.78	30.4	1285
	01298	0111-24P14AWG-U0BK8-03	24	19 X 0.373	0.51	2.03	33.5	1555
	01299	0111-32P14AWG-U0BK8-03	32	19 X 0.373	0.51	2.03	37.9	2010
	01300	0111-36P14AWG-U0BK8-03	36	19 X 0.373	0.51	2.03	40.0	2240

INSTRUMENTATION / PROCESS CONTROL CABLES

POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC)

PVC INSULATED MULTIPAIR / MULTI TRIAD

UNSHIELDED

TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
20	01301	0111-01T20AWG-U0BK8-03	1	7 X 0.307	0.38	0.89	6.0	50
	01302	0111-02T20AWG-U0BK8-03	2	7 X 0.307	0.38	1.27	10.5	105
	01303	0111-03T20AWG-U0BK8-03	3	7 X 0.307	0.38	1.27	11.2	135
	01304	0111-04T20AWG-U0BK8-03	4	7 X 0.307	0.38	1.27	12.1	160
	01305	0111-06T20AWG-U0BK8-03	6	7 X 0.307	0.38	1.27	14.6	220
	01306	0111-08T20AWG-U0BK8-03	8	7 X 0.307	0.38	1.27	15.4	270
	01307	0111-12T20AWG-U0BK8-03	12	7 X 0.307	0.38	1.52	18.7	400
	01308	0111-16T20AWG-U0BK8-03	16	7 X 0.307	0.38	1.52	21.1	510
	01309	0111-20T20AWG-U0BK8-03	20	7 X 0.307	0.38	1.78	23.6	640
	01310	0111-24T20AWG-U0BK8-03	24	7 X 0.307	0.38	1.78	25.5	745
	01311	0111-32T20AWG-U0BK8-03	32	7 X 0.307	0.38	1.78	28.9	960
	01312	0111-36T20AWG-U0BK8-03	36	7 X 0.307	0.38	1.78	30.4	1060
	01313	0111-48T20AWG-U0BK8-03	48	7 X 0.307	0.38	2.03	35.0	1405

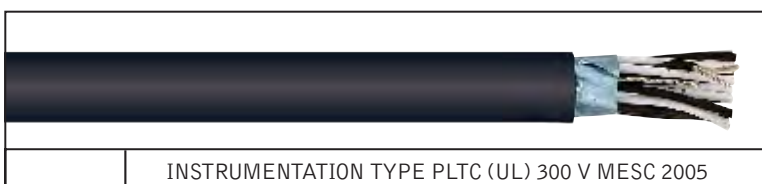
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01314	0111-01T18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.5	60
	01315	0111-02T18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	11.6	135
	01316	0111-03T18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	12.3	170
	01317	0111-04T18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	13.4	210
	01318	0111-06T18AWG-U0BK8-03	6	7 X 0.386	0.38	1.52	16.7	310
	01319	0111-08T18AWG-U0BK8-03	8	7 X 0.386	0.38	1.52	17.7	390
	01320	0111-12T18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	20.8	540
	01321	0111-16T18AWG-U0BK8-03	16	7 X 0.386	0.38	1.78	24.1	725
	01322	0111-20T18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	26.4	870
	01323	0111-24T18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	28.6	1025
	01324	0111-32T18AWG-U0BK8-03	32	7 X 0.386	0.38	2.03	32.9	1355
	01325	0111-36T18AWG-U0BK8-03	36	7 X 0.386	0.38	2.03	34.6	1500
	01326	0111-48T18AWG-U0BK8-03	48	7 X 0.386	0.38	2.03	39.3	1945

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01327	0111-01T16AWG-U0BK8-03	1	7 X 0.488	0.38	1.01	7.4	85
	01328	0111-02T16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	12.9	170
	01329	0111-03T16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	13.7	225
	01330	0111-04T16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	14.9	280
	01331	0111-06T16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	18.7	420
	01332	0111-08T16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	19.8	525
	01333	0111-12T16AWG-U0BK8-03	12	7 X 0.488	0.38	1.78	24.0	775
	01334	0111-16T16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	27.1	995
	01335	0111-20T16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	29.8	1210
	01336	0111-24T16AWG-U0BK8-03	24	7 X 0.488	0.38	2.03	32.8	1460
	01337	0111-32T16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	37.1	1880
	01338	0111-36T16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	39.1	2095

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01339	0111-01T14AWG-U0BK8-03	1	19 X 0.373	0.51	1.01	8.8	120
	01340	0111-02T14AWG-U0BK8-03	2	19 X 0.373	0.51	1.52	16.2	270
	01341	0111-03T14AWG-U0BK8-03	3	19 X 0.373	0.51	1.52	17.3	355
	01342	0111-04T14AWG-U0BK8-03	4	19 X 0.373	0.51	1.52	18.8	445
	01343	0111-06T14AWG-U0BK8-03	6	19 X 0.373	0.51	1.78	23.5	655
	01344	0111-08T14AWG-U0BK8-03	8	19 X 0.373	0.51	1.78	24.9	825
	01345	0111-12T14AWG-U0BK8-03	12	19 X 0.373	0.51	1.78	29.6	1175
	01346	0111-16T14AWG-U0BK8-03	16	19 X 0.373	0.51	2.03	34.1	1565
	01347	0111-20T14AWG-U0BK8-03	20	19 X 0.373	0.51	2.03	37.6	1910
	01348	0111-24T14AWG-U0BK8-03	24	19 X 0.373	0.51	2.03	40.7	2245

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) PVC INSULATED MULTI PAIR / MULTI TRIAD OVERALL SHIELDED

Temperature range - 40°C to +90°C
Specifications : UL13



- Application :** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.
- Conductor** : Plain copper to ASTM B3 , stranded to class B of ASTM B8.
- Insulation** : Flame retardant PVC insulation rated 90°C as per UL13.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Overall Shielding:** : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.
- Jacket** : Extruded black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) PVC INSULATED MULTIPAIR / MULTI TRIAD OVER-ALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
22	02221	0211-01P22AWG-U0BK8-03	1	7 X 0.244	0.38	0.89	5.5	35
	02222	0211-02P22AWG-U0BK8-03	2	7 X 0.244	0.38	1.01	8.2	65
	02223	0211-03P22AWG-U0BK8-03	3	7 X 0.244	0.38	1.01	8.9	80
	02224	0211-04P22AWG-U0BK8-03	4	7 X 0.244	0.38	1.01	9.5	95
	02225	0211-06P22AWG-U0BK8-03	6	7 X 0.244	0.38	1.27	11.5	135
	02226	0211-08P22AWG-U0BK8-03	8	7 X 0.244	0.38	1.27	12.0	160
	02227	0211-12P22AWG-U0BK8-03	12	7 X 0.244	0.38	1.27	14.1	215
	02228	0211-16P22AWG-U0BK8-03	16	7 X 0.244	0.38	1.52	16.3	285
	02229	0211-20P22AWG-U0BK8-03	20	7 X 0.244	0.38	1.52	17.8	340
	02230	0211-24P22AWG-U0BK8-03	24	7 X 0.244	0.38	1.52	19.1	395
	02231	0211-32P22AWG-U0BK8-03	32	7 X 0.244	0.38	1.52	21.5	500
	02232	0211-36P22AWG-U0BK8-03	36	7 X 0.244	0.38	1.78	23.1	575
	02233	0211-40P22AWG-U0BK8-03	40	7 X 0.244	0.38	1.78	24.2	630
	02234	0211-50P22AWG-U0BK8-03	50	7 X 0.244	0.38	1.78	26.5	755

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
20	02235	0211-01P20AWG-U0BK8-03	1	7 X 0.307	0.38	0.89	5.8	45
	02236	0211-02P20AWG-U0BK8-03	2	7 X 0.307	0.38	1.01	8.9	75
	02237	0211-03P20AWG-U0BK8-03	3	7 X 0.307	0.38	1.01	9.6	95
	02238	0211-04P20AWG-U0BK8-03	4	7 X 0.307	0.38	1.27	10.8	125
	02239	0211-06P20AWG-U0BK8-03	6	7 X 0.307	0.38	1.27	12.4	165
	02240	0211-08P20AWG-U0BK8-03	8	7 X 0.307	0.38	1.27	13.0	200
	02241	0211-12P20AWG-U0BK8-03	12	7 X 0.307	0.38	1.27	15.2	270
	02242	0211-16P20AWG-U0BK8-03	16	7 X 0.307	0.38	1.52	17.6	360
	02243	0211-20P20AWG-U0BK8-03	20	7 X 0.307	0.38	1.52	19.3	430
	02244	0211-24P20AWG-U0BK8-03	24	7 X 0.307	0.38	1.52	20.8	500
	02245	0211-32P20AWG-U0BK8-03	32	7 X 0.307	0.38	1.78	24.0	665
	02246	0211-36P20AWG-U0BK8-03	36	7 X 0.307	0.38	1.78	25.2	730
	02247	0211-40P20AWG-U0BK8-03	40	7 X 0.307	0.38	1.78	26.3	800
	02248	0211-50P20AWG-U0BK8-03	50	7 X 0.307	0.38	1.78	29.0	965

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	02249	0211-01P18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.3	55
	02250	0211-02P18AWG-U0BK8-03	2	7 X 0.386	0.38	1.01	9.8	95
	02251	0211-03P18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	11.7	135
	02252	0211-04P18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	11.9	160
	02253	0211-06P18AWG-U0BK8-03	6	7 X 0.386	0.38	1.27	13.7	215
	02254	0211-08P18AWG-U0BK8-03	8	7 X 0.386	0.38	1.27	14.4	260
	02255	0211-12P18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	17.5	380
	02256	0211-16P18AWG-U0BK8-03	16	7 X 0.386	0.38	1.52	19.6	480
	02257	0211-20P18AWG-U0BK8-03	20	7 X 0.386	0.38	1.52	21.5	580
	02258	0211-24P18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	23.8	705
	02259	0211-32P18AWG-U0BK8-03	32	7 X 0.386	0.38	1.78	26.8	900
	02260	0211-36P18AWG-U0BK8-03	36	7 X 0.386	0.38	1.78	28.2	1000
	02261	0211-40P18AWG-U0BK8-03	40	7 X 0.386	0.38	1.78	29.5	1095
	02262	0211-50P18AWG-U0BK8-03	50	7 X 0.386	0.38	2.03	33.0	1370

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	02263	0211-01P16AWG-U0BK8-03	1	7 X 0.488	0.38	0.89	6.9	70
	02264	0211-02P16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	11.4	135
	02265	0211-03P16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	12.3	175
	02266	0211-04P16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	13.2	210
	02267	0211-06P16AWG-U0BK8-03	6	7 X 0.488	0.38	1.27	15.3	285
	02268	0211-08P16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	16.6	370
	02269	0211-12P16AWG-U0BK8-03	12	7 X 0.488	0.38	1.52	19.5	515
	02270	0211-16P16AWG-U0BK8-03	16	7 X 0.488	0.38	1.52	22.0	660
	02271	0211-20P16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	24.7	830
	02272	0211-24P16AWG-U0BK8-03	24	7 X 0.488	0.38	1.78	26.7	970
	02273	0211-32P16AWG-U0BK8-03	32	7 X 0.488	0.38	1.78	30.2	1260
	02274	0211-36P16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	32.3	1420
	02275	0211-40P16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	33.8	1560
	02276	0211-50P16AWG-U0BK8-03	50	7 X 0.488	0.38	2.03	37.2	1905

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) PVC INSULATED MULTIPAIR / MULTI TRIAD OVER-ALL SHIELDED

TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
22	02277	0211-01T22AWG-U0BK8-03	1	7 X 0.244	0.38	0.89	5.7	40
	02278	0211-02T22AWG-U0BK8-03	2	7 X 0.244	0.38	1.01	9.4	80
	02279	0211-03T22AWG-U0BK8-03	3	7 X 0.244	0.38	1.27	10.5	115
	02280	0211-04T22AWG-U0BK8-03	4	7 X 0.244	0.38	1.27	11.3	135
	02281	0211-06T22AWG-U0BK8-03	6	7 X 0.244	0.38	1.27	13.6	180
	02282	0211-08T22AWG-U0BK8-03	8	7 X 0.244	0.38	1.27	14.3	220
	02283	0211-12T22AWG-U0BK8-03	12	7 X 0.244	0.38	1.52	17.3	315
	02284	0211-16T22AWG-U0BK8-03	16	7 X 0.244	0.38	1.52	19.4	395
	02285	0211-20T22AWG-U0BK8-03	20	7 X 0.244	0.38	1.52	21.3	475
	02286	0211-24T22AWG-U0BK8-03	24	7 X 0.244	0.38	1.78	23.5	580
	02287	0211-32T22AWG-U0BK8-03	32	7 X 0.244	0.38	1.78	26.5	730
	02288	0211-36T22AWG-U0BK8-03	36	7 X 0.244	0.38	1.78	27.9	810

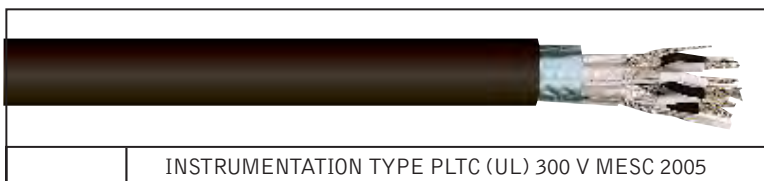
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
20	02289	0211-01T20AWG-U0BK8-03	1	7 X 0.307	0.38	0.89	6.0	50
	02290	0211-02T20AWG-U0BK8-03	2	7 X 0.307	0.38	1.27	10.6	110
	02291	0211-03T20AWG-U0BK8-03	3	7 X 0.307	0.38	1.27	11.2	135
	02292	0211-04T20AWG-U0BK8-03	4	7 X 0.307	0.38	1.27	12.1	160
	02293	0211-06T20AWG-U0BK8-03	6	7 X 0.307	0.38	1.27	14.5	215
	02294	0211-08T20AWG-U0BK8-03	8	7 X 0.307	0.38	1.27	15.3	265
	02295	0211-12T20AWG-U0BK8-03	12	7 X 0.307	0.38	1.52	18.6	385
	02296	0211-16T20AWG-U0BK8-03	16	7 X 0.307	0.38	1.52	20.9	485
	02297	0211-20T20AWG-U0BK8-03	20	7 X 0.307	0.38	1.78	23.5	615
	02298	0211-24T20AWG-U0BK8-03	24	7 X 0.307	0.38	1.78	25.4	715
	02299	0211-32T20AWG-U0BK8-03	32	7 X 0.307	0.38	1.78	28.7	915
	02300	0211-36T20AWG-U0BK8-03	36	7 X 0.307	0.38	1.78	30.2	1010

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	02301	0211-01T18AWG-U0BK8-03	1	7 X 0.386	0.38	0.89	6.6	65
	02302	0211-02T18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	11.7	135
	02303	0211-03T18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	12.4	175
	02304	0211-04T18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	13.5	215
	02305	0211-06T18AWG-U0BK8-03	6	7 X 0.386	0.38	1.52	16.8	310
	02306	0211-08T18AWG-U0BK8-03	8	7 X 0.386	0.38	1.52	17.8	385
	02307	0211-12T18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	20.9	530
	02308	0211-16T18AWG-U0BK8-03	16	7 X 0.386	0.38	1.78	24.2	710
	02309	0211-20T18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	26.5	855
	02310	0211-24T18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	28.7	1005
	02311	0211-32T18AWG-U0BK8-03	32	7 X 0.386	0.38	2.03	33.0	1325
	02312	0211-36T18AWG-U0BK8-03	36	7 X 0.386	0.38	2.03	34.7	1470

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	02313	0211-01T16AWG-U0BK8-03	1	7 X 0.488	0.38	1.01	7.5	85
	02314	0211-02T16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	13.0	172
	02315	0211-03T16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	13.8	224
	02316	0211-04T16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	15.0	278
	02317	0211-06T16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	18.8	414
	02318	0211-08T16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	19.9	516
	02319	0211-12T16AWG-U0BK8-03	12	7 X 0.488	0.38	1.78	24.1	759
	02320	0211-16T16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	27.2	972
	02321	0211-20T16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	29.9	1181
	02322	0211-24T16AWG-U0BK8-03	24	7 X 0.488	0.38	2.03	32.9	1427
	02323	0211-32T16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	37.2	1836
	02324	0211-36T16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	39.2	2043

INSTRUMENTATION/PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) PVC INSULATED MULTI PAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

Temperature range - 40°C to +90°C
Specifications : UL13



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.

Conductor	: Plain copper to ASTM B3, stranded to class B of ASTM B8.
Insulation	: Flame retardant PVC rated 90°C as per UL 13.
Pair Colour Code	: White and black with pair number on white conductor.
Triple Colour Code	: White, black and red with triple number on white conductor.
Pairs/Triples Twisting	: All pairs / triples are twisted to counter electromagnetic noise.
Individual and Overall Shielding	: Each pair / triple is shielded with aluminium polyester tape and a tinned copper drain wire for maximum electrostatic noise and crosstalk rejection. All pair/triple shields are electrically isolated from each other. Individually shielded pairs/triples cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
Jacket	: Extruded Black PVC as per UL13, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) PVC INSULATED MULTIPAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D .mm	Approx. Weight Kg/Km
22	04049	0411-02P22AWG-U0BK8-03	2	7 X 0.244	0.38	1.01	8.8	75
	04050	0411-03P22AWG-U0BK8-03	3	7 X 0.244	0.38	1.01	9.5	95
	04051	0411-04P22AWG-U0BK8-03	4	7 X 0.244	0.38	1.27	10.7	125
	04052	0411-06P22AWG-U0BK8-03	6	7 X 0.244	0.38	1.27	12.2	165
	04053	0411-08P22AWG-U0BK8-03	8	7 X 0.244	0.38	1.27	12.9	200
	04054	0411-12P22AWG-U0BK8-03	12	7 X 0.244	0.38	1.27	15.1	275
	04055	0411-16P22AWG-U0BK8-03	16	7 X 0.244	0.38	1.52	17.5	370
	04056	0411-20P22AWG-U0BK8-03	20	7 X 0.244	0.38	1.52	19.1	440
	04057	0411-24P22AWG-U0BK8-03	24	7 X 0.244	0.38	1.52	20.6	515
	04058	0411-32P22AWG-U0BK8-03	32	7 X 0.244	0.38	1.78	23.7	685
	04059	0411-36P22AWG-U0BK8-03	36	7 X 0.244	0.38	1.78	24.9	755
	04060	0411-40P22AWG-U0BK8-03	40	7 X 0.244	0.38	1.78	26.1	825
04061	0411-50P22AWG-U0BK8-03	50	7 X 0.244	0.38	1.78	28.7	1000	

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D .mm	Approx. Weight Kg/Km
20	04062	0411-02P20AWG-U0BK8-03	2	7 X 0.307	0.38	1.01	9.4	90
	04063	0411-03P20AWG-U0BK8-03	3	7 X 0.307	0.38	1.27	10.7	130
	04064	0411-04P20AWG-U0BK8-03	4	7 X 0.307	0.38	1.27	11.4	155
	04065	0411-06P20AWG-U0BK8-03	6	7 X 0.307	0.38	1.27	13.2	205
	04066	0411-08P20AWG-U0BK8-03	8	7 X 0.307	0.38	1.27	13.9	250
	04067	0411-12P20AWG-U0BK8-03	12	7 X 0.307	0.38	1.52	16.8	365
	04068	0411-16P20AWG-U0BK8-03	16	7 X 0.307	0.38	1.52	18.8	465
	04069	0411-20P20AWG-U0BK8-03	20	7 X 0.307	0.38	1.52	20.6	560
	04070	0411-24P20AWG-U0BK8-03	24	7 X 0.307	0.38	1.52	22.3	655
	04071	0411-32P20AWG-U0BK8-03	32	7 X 0.307	0.38	1.78	25.7	870
	04072	0411-36P20AWG-U0BK8-03	36	7 X 0.307	0.38	1.78	27.0	965
	04073	0411-40P20AWG-U0BK8-03	40	7 X 0.307	0.38	1.78	28.2	1055
	04074	0411-50P20AWG-U0BK8-03	50	7 X 0.307	0.38	1.78	31.1	1285

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D .mm	Approx. Weight Kg/Km
18	04075	0411-02P18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	10.8	120
	04076	0411-03P18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	11.7	155
	04077	0411-04P18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	12.5	185
	04078	0411-06P18AWG-U0BK8-03	6	7 X 0.386	0.38	1.27	14.5	255
	04079	0411-08P18AWG-U0BK8-03	8	7 X 0.386	0.38	1.27	15.3	315
	04080	0411-12P18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	18.5	460
	04081	0411-16P18AWG-U0BK8-03	16	7 X 0.386	0.38	1.52	20.8	585
	04082	0411-20P18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	23.4	740
	04083	0411-24P18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	25.2	860
	04084	0411-32P18AWG-U0BK8-03	32	7 X 0.386	0.38	1.78	28.5	1110
	04085	0411-36P18AWG-U0BK8-03	36	7 X 0.386	0.38	1.78	30.0	1230
	04086	0411-40P18AWG-U0BK8-03	40	7 X 0.386	0.38	1.78	31.4	1350
	04087	0411-50P18AWG-U0BK8-03	50	7 X 0.386	0.38	2.03	35.1	1690

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D .mm	Approx. Weight Kg/Km
16	04088	0411-02P16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	11.9	155
	04089	0411-03P16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	12.9	200
	04090	0411-04P16AWG-U0BK8-03	4	7 X 0.488	0.38	1.27	13.9	250
	04091	0411-06P16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	16.6	360
	04092	0411-08P16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	17.5	445
	04093	0411-12P16AWG-U0BK8-03	12	7 X 0.488	0.38	1.52	20.6	625
	04094	0411-16P16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	23.7	830
	04095	0411-20P16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	26.1	1010
	04096	0411-24P16AWG-U0BK8-03	24	7 X 0.488	0.38	1.78	28.2	1185
	04097	0411-32P16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	32.4	1570
	04098	0411-36P16AWG-U0BK8-03	36	7 X 0.488	0.38	2.03	34.1	1745
	04099	0411-40P16AWG-U0BK8-03	40	7 X 0.488	0.38	2.03	35.7	1920
	04100	0411-50P16AWG-U0BK8-03	50	7 X 0.488	0.38	2.03	39.3	2350

INSTRUMENTATION / PROCESS CONTROL CABLES POWER LIMITED TRAY CABLE 300 VOLTS (TYPE PLTC) PVC INSULATED MULTIPAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
22	04101	0411-02T22AWG-U0BK8-03	2	7 X 0.244	0.38	1.27	10.5	105
	04102	0411-03T22AWG-U0BK8-03	3	7 X 0.244	0.38	1.27	11.1	130
	04103	0411-04T22AWG-U0BK8-03	4	7 X 0.244	0.38	1.27	12.0	155
	04104	0411-06T22AWG-U0BK8-03	6	7 X 0.244	0.38	1.27	14.5	215
	04105	0411-08T22AWG-U0BK8-03	8	7 X 0.244	0.38	1.27	15.3	260
	04106	0411-12T22AWG-U0BK8-03	12	7 X 0.244	0.38	1.52	18.5	380
	04107	0411-16T22AWG-U0BK8-03	16	7 X 0.244	0.38	1.52	20.8	480
	04108	0411-20T22AWG-U0BK8-03	20	7 X 0.244	0.38	1.78	23.4	605
	04109	0411-24T22AWG-U0BK8-03	24	7 X 0.244	0.38	1.78	25.2	700
	04110	0411-32T22AWG-U0BK8-03	32	7 X 0.244	0.38	1.78	28.5	895
	04111	0411-36T22AWG-U0BK8-03	36	7 X 0.244	0.38	1.78	30.0	990

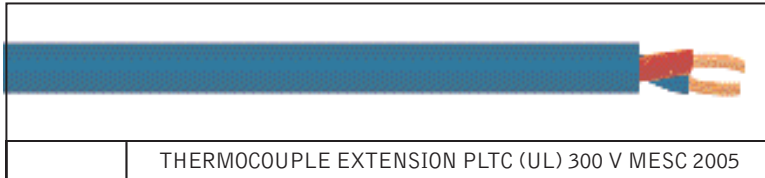
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
20	04112	0411-02T20AWG-U0BK8-03	2	7 X 0.307	0.38	1.27	11.2	125
	04113	0411-03T20AWG-U0BK8-03	3	7 X 0.307	0.38	1.27	11.9	160
	04114	0411-04T20AWG-U0BK8-03	4	7 X 0.307	0.38	1.27	12.9	190
	04115	0411-06T20AWG-U0BK8-03	6	7 X 0.307	0.38	1.52	16.1	285
	04116	0411-08T20AWG-U0BK8-03	8	7 X 0.307	0.38	1.52	17.0	345
	04117	0411-12T20AWG-U0BK8-03	12	7 X 0.307	0.38	1.52	20.0	480
	04118	0411-16T20AWG-U0BK8-03	16	7 X 0.307	0.38	1.78	23.1	635
	04119	0411-20T20AWG-U0BK8-03	20	7 X 0.307	0.38	1.78	25.3	765
	04120	0411-24T20AWG-U0BK8-03	24	7 X 0.307	0.38	1.78	27.3	890
	04121	0411-32T20AWG-U0BK8-03	32	7 X 0.307	0.38	1.78	30.9	1145
	04122	0411-36T20AWG-U0BK8-03	36	7 X 0.307	0.38	2.03	33.1	1310

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	04123	0411-02T18AWG-U0BK8-03	2	7 X 0.386	0.38	1.27	12.3	150
	04124	0411-03T18AWG-U0BK8-03	3	7 X 0.386	0.38	1.27	13.1	195
	04125	0411-04T18AWG-U0BK8-03	4	7 X 0.386	0.38	1.27	14.2	240
	04126	0411-06T18AWG-U0BK8-03	6	7 X 0.386	0.38	1.52	17.8	355
	04127	0411-08T18AWG-U0BK8-03	8	7 X 0.386	0.38	1.52	18.7	435
	04128	0411-12T18AWG-U0BK8-03	12	7 X 0.386	0.38	1.52	22.1	615
	04129	0411-16T18AWG-U0BK8-03	16	7 X 0.386	0.38	1.78	25.5	815
	04130	0411-20T18AWG-U0BK8-03	20	7 X 0.386	0.38	1.78	28.1	990
	04131	0411-24T18AWG-U0BK8-03	24	7 X 0.386	0.38	1.78	30.4	1165
	04132	0411-32T18AWG-U0BK8-03	32	7 X 0.386	0.38	2.03	34.9	1535
	04133	0411-36T18AWG-U0BK8-03	36	7 X 0.386	0.38	2.03	36.8	1705

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	04134	0411-02T16AWG-U0BK8-03	2	7 X 0.488	0.38	1.27	13.6	200
	04135	0411-03T16AWG-U0BK8-03	3	7 X 0.488	0.38	1.27	14.5	260
	04136	0411-04T16AWG-U0BK8-03	4	7 X 0.488	0.38	1.52	16.2	340
	04137	0411-06T16AWG-U0BK8-03	6	7 X 0.488	0.38	1.52	19.7	480
	04138	0411-08T16AWG-U0BK8-03	8	7 X 0.488	0.38	1.52	20.9	605
	04139	0411-12T16AWG-U0BK8-03	12	7 X 0.488	0.38	1.78	25.3	885
	04140	0411-16T16AWG-U0BK8-03	16	7 X 0.488	0.38	1.78	28.5	1130
	04141	0411-20T16AWG-U0BK8-03	20	7 X 0.488	0.38	1.78	31.4	1380
	04142	0411-24T16AWG-U0BK8-03	24	7 X 0.488	0.38	2.03	34.6	1670
	04143	0411-32T16AWG-U0BK8-03	32	7 X 0.488	0.38	2.03	39.2	2155
	04144	0411-36T16AWG-U0BK8-03	36	7 X 0.488	0.38	2.79	42.8	2540

THERMOCOUPLE EXTENSION CABLE 300 VOLTS TYPE PLTC-90°C RATING UNSHIELDED

Specification: UL13



Application : These cables are used on circuits where shielding from external interference or other pairs is not required. Suitable for cable tray, conduit or direct burial application in dry or wet location.

Conductor : Solid Alloy wire as per ANSI MC 96.1.

Insulation : Flame Retardant PVC rated 90°C as per UL13.

Pair Twisting : ANSI colour coded cores are twisted to counter electromagnetic noise.

Assembly : Twisted Pairs are cabled with non-hygroscopic fillers if necessary and the entire assembly is covered with a Polyester tape if required.

Outer Jacket : ANSI colour coded PVC rated 90°C as per UL 13. Jacket is oil and Sunlight resistant and passes IEEE-383 Flame Test.

COLOUR CODE AND LIMITS OF ERROR

ANSI Type	Positive Wire		Negative Wire		Jacket Colour	Temperature Range °C	Standard Error Limit. (±)
	Alloy	Colour	Alloy	Colour			
EX	Chromel	Purple	Constantan	Red	Purple	-18 to 204	2.22°C
JX	Iron	White	Constantan	Red	Black	-18 to 204	2.22°C
KX	Chromel	Yellow	Alumel	Red	Yellow	-18 to 204	2.22°C
TX	Copper	Blue	Constantan	Red	Blue	- 59 to 93	0.83°C

EX-TYPE

Size	Order	MESC Code		Pairs	Conductor Diameter	Insulation Thickness	Nominal Jacket Thickness	Approx. O.D.	Approx. Weight
AWG	No.				mm	mm	mm	mm	Kg./Km
16	E1001	01E1-01P16A	WG-U0PR8-03	1	1.29	0.38	0.89	6.4	55
	E1002	01E1-02P20A	WG-U0PR8-03	2	0.81	0.38	1.01	8.4	66
	E1003	01E1-03P20A	WG-U0PR8-03	3	0.81	0.38	1.01	9.0	83
	E1004	01E1-04P20A	WG-U0PR8-03	4	0.81	0.38	1.01	9.7	101
	E1005	01E1-06P20A	WG-U0PR8-03	6	0.81	0.38	1.27	11.7	150
	E1006	01E1-08P20A	WG-U0PR8-03	8	0.81	0.38	1.27	12.3	182
	E1007	01E1-12P20A	WG-U0PR8-03	12	0.81	0.38	1.27	14.4	251
20	E1008	01E1-16P20A	WG-U0PR8-03	16	0.81	0.38	1.52	16.6	338
	E1009	01E1-20P20A	WG-U0PR8-03	20	0.81	0.38	1.52	18.2	405
	E1010	01E1-24P20A	WG-U0PR8-03	24	0.81	0.38	1.52	19.6	472
	E1011	01E1-32P20A	WG-U0PR8-03	32	0.81	0.38	1.52	22.1	603
	E1012	01E1-36P20A	WG-U0PR8-03	36	0.81	0.38	1.78	23.8	696
	E1013	01E1-40P20A	WG-U0PR8-03	40	0.81	0.38	1.78	24.8	761
	E1014	01E1-50P20A	WG-U0PR8-03	50	0.81	0.38	1.78	27.3	922

THERMOCOUPLE EXTENSION CABLE 300 VOLTS TYPE PLTC-90°C RATING UNSHIELDED

JX -TYPE

Size AWG	Size Size	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	J1001	01J1-01P16A WG-U0BK8-03	1	1.29	0.38	0.89	6.4	54
	J1002	01J1-02P20A WG-U0BK8-03	2	0.81	0.38	1.01	8.4	65
	J1003	01J1-03P20A WG-U0BK8-03	3	0.81	0.38	1.01	9.0	82
	J1004	01J1-04P20A WG-U0BK8-03	4	0.81	0.38	1.01	9.7	99
	J1005	01J1-06P20A WG-U0BK8-03	6	0.81	0.38	1.27	11.7	148
	J1006	01J1-08P20A WG-U0BK8-03	8	0.81	0.38	1.27	12.3	178
	J1007	01J1-12P20A WG-U0BK8-03	12	0.81	0.38	1.27	14.4	246
20	J1008	01J1-16P20A WG-U0BK8-03	16	0.81	0.38	1.52	16.6	331
	J1009	01J1-20P20A WG-U0BK8-03	20	0.81	0.38	1.52	18.2	397
	J1010	01J1-24P20A WG-U0BK8-03	24	0.81	0.38	1.52	19.6	461
	J1011	01J1-32P20A WG-U0BK8-03	32	0.81	0.38	1.52	22.1	588
	J1012	01J1-36P20A WG-U0BK8-03	36	0.81	0.38	1.78	23.8	680
	J1013	01J1-40P20A WG-U0BK8-03	40	0.81	0.38	1.78	24.8	743
	J1014	01J1-50P20A WG-U0BK8-03	50	0.81	0.38	1.78	27.3	900

KX -TYPE

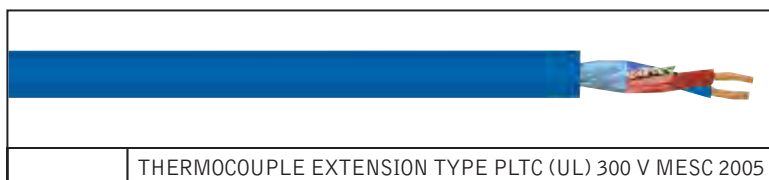
Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	K1001	01K1-01P16A WG-U0YL8-03	1	1.29	0.38	0.89	6.4	55
	K1002	01K1-02P20A WG-U0YL8-03	2	0.81	0.38	1.01	8.4	65
	K1003	01K1-03P20A WG-U0YL8-03	3	0.81	0.38	1.01	9.0	83
	K1004	01K1-04P20A WG-U0YL8-03	4	0.81	0.38	1.01	9.7	100
	K1005	01K1-06P20A WG-U0YL8-03	6	0.81	0.38	1.27	11.7	149
	K1006	01K1-08P20A WG-U0YL8-03	8	0.81	0.38	1.27	12.3	181
	K1007	01K1-12P20A WG-U0YL8-03	12	0.81	0.38	1.27	14.4	249
20	K1008	01K1-16P20A WG-U0YL8-03	16	0.81	0.38	1.52	16.6	335
	K1009	01K1-20P20A WG-U0YL8-03	20	0.81	0.38	1.52	18.2	402
	K1010	01K1-24P20A WG-U0YL8-03	24	0.81	0.38	1.52	19.6	468
	K1011	01K1-32P20A WG-U0YL8-03	32	0.81	0.38	1.52	22.1	598
	K1012	01K1-36P20A WG-U0YL8-03	36	0.81	0.38	1.78	23.8	690
	K1013	01K1-40P20A WG-U0YL8-03	40	0.81	0.38	1.78	24.8	755
	K1014	01K1-50P20A WG-U0YL8-03	50	0.81	0.38	1.78	27.3	915

TX -TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	T1001	01T1-01P16A WG-U0BL8-03	1	1.29	0.38	0.89	6.4	55
	T1002	01T1-02P20A WG-U0BL8-03	2	0.81	0.38	1.01	8.4	66
	T1003	01T1-03P20A WG-U0BL8-03	3	0.81	0.38	1.01	9.0	84
	T1004	01T1-04P20A WG-U0BL8-03	4	0.81	0.38	1.01	9.7	101
	T1005	01T1-06P20A WG-U0BL8-03	6	0.81	0.38	1.27	11.7	151
	T1006	01T1-08P20A WG-U0BL8-03	8	0.81	0.38	1.27	12.3	183
	T1007	01T1-12P20A WG-U0BL8-03	12	0.81	0.38	1.27	14.4	253
20	T1008	01T1-16P20A WG-U0BL8-03	16	0.81	0.38	1.52	16.6	339
	T1009	01T1-20P20A WG-U0BL8-03	20	0.81	0.38	1.52	18.2	408
	T1010	01T1-24P20A WG-U0BL8-03	24	0.81	0.38	1.52	19.6	474
	T1011	01T1-32P20A WG-U0BL8-03	32	0.81	0.38	1.52	22.1	606
	T1012	01T1-36P20A WG-U0BL8-03	36	0.81	0.38	1.78	23.8	700
	T1013	01T1-40P20A WG-U0BL8-03	40	0.81	0.38	1.78	24.8	765
	T1014	01T1-50P20A WG-U0BL8-03	50	0.81	0.38	1.78	27.3	928

THERMOCOUPLE EXTENSION CABLE 300 VOLTS TYPE PLTC-90°C RATING OVERALL SHIELDED

Specification: UL13



Application : These cables are used on circuits where shielding from external interference or other pairs is not required. Suitable for cable tray, conduit or direct burial application in dry or wet location.

Conductor : Solid Alloy wire as per ANSI MC 96.1.

Insulation : Flame Retardant PVC rated 90°C as per UL13.

Pair Twisting : ANSI colour coded cores are twisted to counter electromagnetic noise.

Overall Shielding : Twisted pairs are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.

Jacket : ANSI colour coded PVC rated 90°C as per UL 13. Jacket is oil and Sunlight resistant and passes IEEE-383 Flame Test.

COLOUR CODE AND LIMITS OF ERROR

ANSI Type	Positive Wire		Negative Wire		Jacket Colour	Temperature Range °C	Standard Error Limit. (±)
	Alloy	Colour	Alloy	Colour			
EX	Chromel	Purple	Constantan	Red	Purple	-18 to 204	2.22°C
JX	Iron	White	Constantan	Red	Black	-18 to 204	2.22°C
KX	Chromel	Yellow	Alumel	Red	Yellow	-18 to 204	2.22°C
TX	Copper	Blue	Constantan	Red	Blue	-59 to 93	0.83°C

EX- TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	E2001	02E1-01P16A WG-U0PR8-03	1	1.29	0.38	0.89	6.5	62
	E2002	02E1-02P20A WG-U0PR8-03	2	0.81	0.38	1.01	8.5	74
	E2003	02E1-03P20A WG-U0PR8-03	3	0.81	0.38	1.01	9.4	91
	E2004	02E1-04P20A WG-U0PR8-03	4	0.81	0.38	1.01	9.8	109
	E2005	02E1-06P20A WG-U0PR8-03	6	0.81	0.38	1.27	11.8	160
	E2006	02E1-08P20A WG-U0PR8-03	8	0.81	0.38	1.27	12.4	192
	E1007	02E1-12P20A WG-U0PR8-03	12	0.81	0.38	1.27	14.5	262
20	E2008	02E1-16P20A WG-U0PR8-03	16	0.81	0.38	1.52	16.7	338
	E2009	02E1-20P20A WG-U0PR8-03	20	0.81	0.38	1.52	18.3	349
	E2010	02E1-24P20A WG-U0PR8-03	24	0.81	0.38	1.52	19.7	418
	E2011	02E1-32P20A WG-U0PR8-03	32	0.81	0.38	1.52	22.2	485
	E2012	02E1-36P20A WG-U0PR8-03	36	0.81	0.38	1.78	23.9	617
	E2013	02E1-40P20A WG-U0PR8-03	40	0.81	0.38	1.78	24.9	711
	E2014	02E1-50P20A WG-U0PR8-03	50	0.81	0.38	1.78	27.7	939

THERMOCOUPLE EXTENSION CABLE

300 VOLTS TYPE PLTC-900 RATING

OVERALL SHIELDED

JX -TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	J2001	02J1-01P16A WG-U0BK8-03	1	1.29	0.38	0.89	6.5	61
	J2002	02J1-02P20A WG-U0BK8-03	2	0.81	0.38	1.01	8.5	73
	J2003	02J1-03P20A WG-U0BK8-03	3	0.81	0.38	1.01	9.1	90
	J2004	02J1-04P20A WG-U0BK8-03	4	0.81	0.38	1.01	9.8	107
	J2005	02J1-06P20A WG-U0BK8-03	6	0.81	0.38	1.27	11.8	157
	J2006	02J1-08P20A WG-U0BK8-03	8	0.81	0.38	1.27	12.4	188
	J2007	02J1-12P20A WG-U0BK8-03	12	0.81	0.38	1.27	14.5	257
20	J2008	02J1-16P20A WG-U0BK8-03	16	0.81	0.38	1.52	16.7	342
	J2009	02J1-20P20A WG-U0BK8-03	20	0.81	0.38	1.52	18.3	409
	J2010	02J1-24P20A WG-U0BK8-03	24	0.81	0.38	1.52	19.7	474
	J2011	02J1-32P20A WG-U0BK8-03	32	0.81	0.38	1.52	22.2	603
	J2012	02J1-36P20A WG-U0BK8-03	36	0.81	0.38	1.78	23.9	695
	J2013	02J1-40P20A WG-U0BK8-03	40	0.81	0.38	1.78	24.9	759
	J2014	02J1-50P20A WG-U0BK8-03	50	0.81	0.38	1.78	27.4	917

KX -TYPE

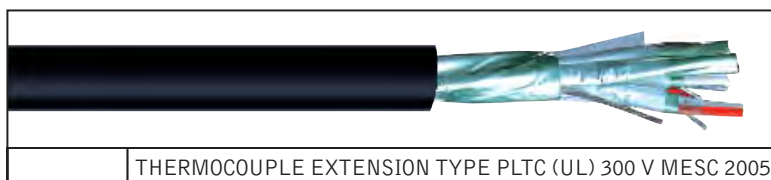
Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	K2001	02K1-01P16A WG-U0YL8-03	1	1.29	0.38	0.89	6.5	62
	K2002	02K1-02P20A WG-U0YL8-03	2	0.81	0.38	1.01	8.5	73
	K2003	02K1-03P20A WG-U0YL8-03	3	0.81	0.38	1.01	9.1	91
	K2004	02K1-04P20A WG-U0YL8-03	4	0.81	0.38	1.01	9.8	109
	K2005	02K1-06P20A WG-U0YL8-03	6	0.81	0.38	1.27	11.8	159
	K2006	02K1-08P20A WG-U0YL8-03	8	0.81	0.38	1.27	12.4	190
	K2007	02K1-12P20A WG-U0YL8-03	12	0.81	0.38	1.27	14.5	260
20	K2008	02K1-16P20A WG-U0YL8-03	16	0.81	0.38	1.52	16.7	347
	K2009	02K1-20P20A WG-U0YL8-03	20	0.81	0.38	1.52	18.3	415
	K2010	02K1-24P20A WG-U0YL8-03	24	0.81	0.38	1.52	19.7	481
	K2011	02K1-32P20A WG-U0YL8-03	32	0.81	0.38	1.52	22.2	612
	K2012	02K1-36P20A WG-U0YL8-03	36	0.81	0.38	1.78	23.9	705
	K2013	02K1-40P20A WG-U0YL8-03	40	0.81	0.38	1.78	24.9	770
	K2014	02K1-50P20A WG-U0YL8-03	50	0.81	0.38	1.78	27.4	931

TX -TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
16	T2001	02T1-01P16A WG-U0BL8-03	1	1.29	0.38	0.89	6.5	62
	T2002	02T1-02P20A WG-U0BL8-03	2	0.81	0.38	1.01	8.5	74
	T2003	02T1-03P20A WG-U0BL8-03	3	0.81	0.38	1.01	9.1	92
	T2004	02T1-04P20A WG-U0BL8-03	4	0.81	0.38	1.01	9.8	110
	T2005	02T1-06P20A WG-U0BL8-03	6	0.81	0.38	1.27	11.8	160
	T2006	02T1-08P20A WG-U0BL8-03	8	0.81	0.38	1.27	12.4	192
	T2007	02T1-12P20A WG-U0BL8-03	12	0.81	0.38	1.27	14.5	263
20	T2008	02T1-16P20A WG-U0BL8-03	16	0.81	0.38	1.52	16.7	351
	T2009	02T1-20P20A WG-U0BL8-03	20	0.81	0.38	1.52	18.3	420
	T2010	02T1-24P20A WG-U0BL8-03	24	0.81	0.38	1.52	19.7	488
	T2011	02T1-32P20A WG-U0BL8-03	32	0.81	0.38	1.52	22.2	620
	T2012	02T1-36P20A WG-U0BL8-03	36	0.81	0.38	1.78	23.9	715
	T2013	02T1-40P20A WG-U0BL8-03	40	0.81	0.38	1.78	24.9	781
	T2014	02T1-50P20A WG-U0BL8-03	50	0.81	0.38	1.78	27.4	944

THERMOCOUPLE EXTENSION CABLE 300 VOLTS TYPE PLTC-90°C RATING PAIR & OVERALL SHIELDED

Specification: UL13



- Application** : These cables are used on circuits where shielding from external interference or other pairs is not required. Suitable for cable tray, conduit or direct burial application in dry or wet location.
- Conductor** : Solid Alloy wire as per ANSI MC 96.1.
- Insulation** : Flame Retardant PVC rated 90°C as per UL13.
- Pair Twisting** : ANSI colour coded cores are twisted to counter electromagnetic noise.
- Pair Overall Shielding** : Each pair is shielded with aluminium polyester tape & a tinned copper drain wire, for maximum electrostatic noise and crosstalk rejection. All pair shields are electrically isolated from each other. Individually shielded pairs are cabled with non hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
- Jacket** : ANSI colour coded PVC rated 90°C as per UL 13. Jacket is oil and Sunlight resistant and passes IEEE-383 Flame Test.

COLOUR CODE AND LIMITS OF ERROR

ANSI Type	Positive Wire		Negative Wire		Jacket Colour	Temperature Range °C	Standard Error Limit. (±)
	Alloy	Colour	Alloy	Colour			
EX	Chromel	Purple	Constantan	Red	Purple	-18 to 204	2.22°C
JX	Iron	White	Constantan	Red	Black	-18 to 204	2.22°C
KX	Chromel	Yellow	Alumel	Red	Yellow	-18 to 204	2.22°C
TX	Copper	Blue	Constantan	Red	Blue	- 59 to 93	0.83°C

EX -TYPE

Size	Order	MES C Code		Pairs	Conductor Diameter	Insulation Thickness	Nominal Jacket Thickness	Approx. O.D.	Approx. Weight
AWG	No.				mm	mm	mm	mm	Kg./Km
16	E4001	04E1-01P16A	WG-U0PR8-03	1	0.81	0.38	1.01	9.5	89
	E4002	04E1-02P20A	WG-U0PR8-03	2	0.81	0.38	1.01	9.7	113
	E4003	04E1-03P20A	WG-U0PR8-03	3	0.81	0.38	1.27	11.0	150
	E4004	04E1-04P20A	WG-U0PR8-03	4	0.81	0.38	1.27	12.6	201
	E4005	04E1-06P20A	WG-U0PR8-03	6	0.81	0.38	1.27	13.2	246
	E4006	04E1-08P20A	WG-U0PR8-03	8	0.81	0.38	1.52	16.0	360
	E4007	04E1-12P20A	WG-U0PR8-03	12	0.81	0.38	1.52	17.9	456
20	E4008	04E1-16P20A	WG-U0PR8-03	16	0.81	0.38	1.52	19.6	550
	E4009	04E1-20P20A	WG-U0PR8-03	20	0.81	0.38	1.52	21.2	642
	E4010	04E1-24P20A	WG-U0PR8-03	24	0.81	0.38	1.78	24.4	854
	E4011	04E1-32P20A	WG-U0PR8-03	32	0.81	0.38	1.78	25.7	946
	E4012	04E1-36P20A	WG-U0PR8-03	36	0.81	0.38	1.78	26.8	1037
	E4013	04E1-40P20A	WG-U0PR8-03	40	0.81	0.38	1.78	29.5	1262

THERMOCOUPLE EXTENSION CABLE

300 VOLTS TYPE PLTC-90°C RATING

PAIR & OVERALL SHIELDED

JX -TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
20	J4001	04J1-02P20A WG-U0BK8-03	2	0.81	0.38	1.01	9.0	88
	J4002	04J1-03P20A WG-U0BK8-03	3	0.81	0.38	1.01	9.7	112
	J4003	04J1-04P20A WG-U0BK8-03	4	0.81	0.38	1.27	11.0	148
	J4004	04J1-06P20A WG-U0BK8-03	6	0.81	0.38	1.27	12.6	199
	J4005	04J1-08P20A WG-U0BK8-03	8	0.81	0.38	1.27	13.2	242
	J4006	04J1-12P20A WG-U0BK8-03	12	0.81	0.38	1.52	16.0	355
	J4007	04J1-16P20A WG-U0BK8-03	16	0.81	0.38	1.52	17.9	449
	J4008	04J1-20P20A WG-U0BK8-03	20	0.81	0.38	1.52	19.6	541
	J4009	04J1-24P20A WG-U0BK8-03	24	0.81	0.38	1.52	21.2	632
	J4010	04J1-32P20A WG-U0BK8-03	32	0.81	0.38	1.78	24.4	840
	J4011	04J1-36P20A WG-U0BK8-03	36	0.81	0.38	1.78	25.7	930
	J4012	04J1-40P20A WG-U0BK8-03	40	0.81	0.38	1.78	26.8	1019
	J4013	04J1-50P20A WG-U0BK8-03	50	0.81	0.38	1.78	29.5	1240

KX -TYPE

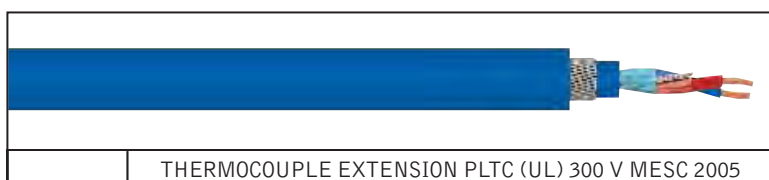
Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
20	K4001	04K1-02P20A WG-U0YL8-03	2	0.81	0.38	1.01	9.0	89
	K4002	04K1-03P20A WG-U0YL8-03	3	0.81	0.38	1.01	9.7	113
	K4003	04K1-04P20A WG-U0YL8-03	4	0.81	0.38	1.27	11.0	150
	K4004	04K1-06P20A WG-U0YL8-03	6	0.81	0.38	1.27	12.6	200
	K4005	04K1-08P20A WG-U0YL8-03	8	0.81	0.38	1.27	13.2	245
	K4006	04K1-12P20A WG-U0YL8-03	12	0.81	0.38	1.52	16.0	359
	K4007	04K1-16P20A WG-U0YL8-03	16	0.81	0.38	1.52	17.9	454
	K4008	04K1-20P20A WG-U0YL8-03	20	0.81	0.38	1.52	19.6	547
	K4009	04K1-24P20A WG-U0YL8-03	24	0.81	0.38	1.52	21.2	639
	K4010	04K1-32P20A WG-U0YL8-03	32	0.81	0.38	1.78	24.4	849
	K4011	04K1-36P20A WG-U0YL8-03	36	0.81	0.38	1.78	25.7	940
	K4012	04K1-40P20A WG-U0YL8-03	40	0.81	0.38	1.78	26.8	1030
	K4013	04K1-50P20A WG-U0YL8-03	50	0.81	0.38	1.78	29.5	1254

TX -TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. Weight Kg./Km
20	T4001	04T1-02P20A WG-U0BL8-03	2	0.81	0.38	1.01	9.0	89
	T4002	04T1-03P20A WG-U0BL8-03	3	0.81	0.38	1.01	9.7	113
	T4003	04T1-04P20A WG-U0BL8-03	4	0.81	0.38	1.27	11.0	151
	T4004	04T1-06P20A WG-U0BL8-03	6	0.81	0.38	1.27	12.6	202
	T4005	04T1-08P20A WG-U0BL8-03	8	0.81	0.38	1.27	13.2	247
	T4006	04T1-12P20A WG-U0BL8-03	12	0.81	0.38	1.52	16.0	362
	T4007	04T1-16P20A WG-U0BL8-03	16	0.81	0.38	1.52	17.9	458
	T4008	04T1-20P20A WG-U0BL8-03	20	0.81	0.38	1.52	19.6	552
	T4009	04T1-24P20A WG-U0BL8-03	24	0.81	0.38	1.52	21.2	645
	T4010	04T1-32P20A WG-U0BL8-03	32	0.81	0.38	1.78	24.4	857
	T4011	04T1-36P20A WG-U0BL8-03	36	0.81	0.38	1.78	25.7	949
	T4012	04T1-40P20A WG-U0BL8-03	40	0.81	0.38	1.78	26.8	1041
	T4013	04T1-50P20A WG-U0BL8-03	50	0.81	0.38	1.78	29.5	1267

THERMOCOUPLE EXTENSION CABLE 300 VOLTS TYPE PLTC-90°C RATING WIRE ARMoured, OVERALL SHIELDED

Specification: UL13



Application: These cables are used on circuits where shielding from external interference is required, but shielding between pairs is not critical. Suitable for cable tray, conduit or direct burial application in dry or wet location. The wire armour provides longitudinal strength for use as a messenger cable or for support in vertical drops (NEC SECTION 300-19) and provides protection against mechanical damage.

- Conductor :** Solid alloy wire as per ANSI MC 96.1
- Insulation :** Flame Retardant PVC rated 90°C as per UL13.
- Pair Twisting :** ANSI colour coded cores are twisted to counter electromagnetic noise.
- Overall Shielding :** Twisted pairs are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
- Inner Jacket :** ANSI colour coded flame retardant PVC rated 90°C as per UL13.
- Wire Armour :** A serving of soft round galvanized steel wires is applied with 90% minimum coverage.
- Outer Jacket :** ANSI color coded PVC rated 90°C as per UL13. Jacket is oil and sunlight

COLOUR CODE AND LIMITS OF ERROR

ANSI Type	Positive Wire		Negative Wire		Jacket Colour	Temperature Range °C	Standard Error Limit. (±)
	Alloy	Colour	Alloy	Colour			
EX	Chromel	Purple	Constantan	Red	Purple	-18 to 204	2.22°C
JX	Iron	White	Constantan	Red	Black	-18 to 204	2.22°C
KX	Chromel	Yellow	Alumel	Red	Yellow	-18 to 204	2.22°C
TX	Copper	Blue	Constantan	Red	Blue	- 59 to 93	0.83°C

EX -TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Inn. Jkt. Thickness mm	Dia.Over Inn. Jkt. mm	Arm. Wire Dia. mm	Dia.Over Armour mm	Outer Jkt Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
16	E2015	02E1-01P16A WG-WOPR8-03	1	1.29	0.38	0.89	6.5	0.9	8.3	1.27	11.0	253
	E2016	02E1-02P20A WG-WOPR8-03	2	0.81	0.38	1.01	8.5	0.9	10.3	1.27	12.9	316
	E2017	02E1-03P20A WG-WOPR8-03	3	0.81	0.38	1.01	9.1	0.9	10.9	1.27	13.6	349
	E2018	02E1-04P20A WG-WOPR8-03	4	0.81	0.38	1.01	9.8	0.9	11.6	1.27	14.2	382
	E2019	02E1-06P20A WG-WOPR8-03	6	0.81	0.38	1.27	11.8	1.25	14.3	1.52	17.5	604
	E2020	02E1-08P20A WG-WOPR8-03	8	0.81	0.38	1.27	12.4	1.25	14.9	1.52	18.1	651
20	E2021	02E1-12P20A WG-WOPR8-03	12	0.81	0.38	1.27	14.5	1.25	17.0	1.52	20.2	790
	E2022	02E1-16P20A WG-WOPR8-03	16	0.81	0.38	1.52	16.7	1.6	19.9	1.78	23.7	1124
	E2023	02E1-20P20A WG-WOPR8-03	20	0.81	0.38	1.52	18.3	1.6	21.5	1.78	25.2	1258
	E2024	02E1-24P20A WG-WOPR8-03	24	0.81	0.38	1.52	19.7	1.6	22.9	1.78	26.6	1373
	E2025	02E1-32P20A WG-WOPR8-03	32	0.81	0.38	1.52	22.2	1.6	25.4	1.78	29.1	1613
	E2026	02E1-36P20A WG-WOPR8-03	36	0.81	0.38	1.78	23.9	2.0	27.9	1.78	31.6	1989
	E2027	02E1-40P20A WG-WOPR8-03	40	0.81	0.38	1.78	24.9	2.0	28.9	2.03	33.2	2159
	E2028	02E1-50P20A WG-WOPR8-03	50	0.81	0.38	1.78	27.4	2.0	31.4	2.03	35.7	2427

THERMOCOUPLE EXTENSION CABLE

300 VOLTS TYPE PLTC-90°C RATING

WIRE ARMoured, OVERALL SHIELDED

JX - TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Inn. Jkt. Thickness mm	Dia.Over Inn. Jkt. mm	Arm. Wire Dia. mm	Dia.Over Armour mm	Outer Jkt Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
16	J2015	02J1-01P16A WG-W0BK8-03	1	1.29	0.38	0.89	6.5	0.9	8.3	1.27	11.0	253
	J2016	02J1-03P20A WG-W0BK8-03	3	0.81	0.38	1.01	9.1	0.9	10.9	1.27	13.6	347
	J2017	02J1-04P20A WG-W0BK8-03	4	0.81	0.38	1.01	9.8	0.9	11.6	1.27	14.2	380
	J2018	02J1-06P20A WG-W0BK8-03	6	0.81	0.38	1.27	11.8	1.25	14.3	1.52	17.5	601
	J2019	02J1-08P20A WG-W0BK8-03	8	0.81	0.38	1.27	12.4	1.25	14.9	1.52	18.1	648
	J2020	02J1-12P20A WG-W0BK8-03	12	0.81	0.38	1.27	14.5	1.25	17.0	1.52	20.2	785
	20	J2021	02J1-16P20A WG-W0BK8-03	16	0.81	0.38	1.52	16.7	1.6	19.9	1.78	23.7
J2022		02J1-20P20A WG-W0BK8-03	20	0.81	0.38	1.52	18.3	1.6	21.5	1.78	25.2	1250
J2023		02J1-24P20A WG-W0BK8-03	24	0.81	0.38	1.52	19.7	1.6	22.9	1.78	26.6	1362
J2024		02J1-32P20A WG-W0BK8-03	32	0.81	0.38	1.52	22.2	1.6	25.4	1.78	29.1	1599
J2025		02J1-36P20A WG-W0BK8-03	36	0.81	0.38	1.78	23.9	2.0	27.9	1.78	31.6	1973
J2026		02J1-40P20A WG-W0BK8-03	40	0.81	0.38	1.78	24.9	2.0	28.9	2.03	33.2	2141
J2027		02J1-50P20A WG-W0BK8-03	50	0.81	0.38	1.78	27.4	2.0	31.4	2.03	35.7	2405

KX - TYPE

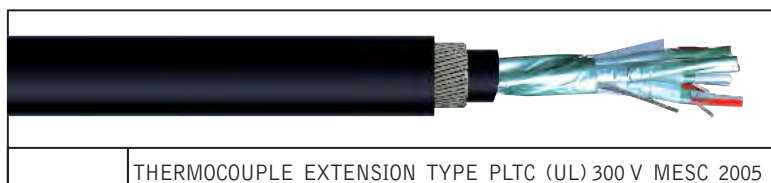
Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Inn. Jkt. Thickness mm	Dia.Over Inn. Jkt. mm	Arm. Wire Dia. mm	Dia.Over Armour mm	Outer Jkt Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km	
16	K2015	02K1-01P16A WG-W0YL8-03	1	1.29	0.38	0.89	6.5	0.9	8.3	1.27	11.0	253	
	K2016	02K1-02P20A WG-W0YL8-03	2	0.81	0.38	1.01	8.5	0.9	10.3	1.27	12.9	315	
	K2017	02K1-03P20A WG-W0YL8-03	3	0.81	0.38	1.01	9.1	0.9	10.9	1.27	13.6	348	
	K2018	02K1-04P20A WG-W0YL8-03	4	0.81	0.38	1.01	9.8	0.9	11.6	1.27	14.2	381	
	K2019	02K1-06P20A WG-W0YL8-03	6	0.81	0.38	1.27	11.8	1.25	14.3	1.52	17.5	603	
	K2020	02K1-08P20A WG-W0YL8-03	8	0.81	0.38	1.27	12.4	1.25	14.9	1.52	18.1	650	
	K2021	02K1-12P20A WG-W0YL8-03	12	0.81	0.38	1.27	14.5	1.25	17.0	1.52	20.2	789	
	20	K2022	02K1-16P20A WG-W0YL8-03	16	0.81	0.38	1.52	16.7	1.6	19.9	1.78	23.7	1122
		K2023	02K1-20P20A WG-W0YL8-03	20	0.81	0.38	1.52	18.3	1.6	21.5	1.78	25.2	1255
		K2024	02K1-24P20A WG-W0YL8-03	24	0.81	0.38	1.52	19.7	1.6	22.9	1.78	26.6	1369
K2025		02K1-32P20A WG-W0YL8-03	32	0.81	0.38	1.52	22.2	1.6	25.4	1.78	29.1	1608	
K2026		02K1-36P20A WG-W0YL8-03	36	0.81	0.38	1.78	23.9	2.0	27.9	1.78	31.6	1984	
K2027		02K1-40P20A WG-W0YL8-03	40	0.81	0.38	1.78	24.9	2.0	28.9	2.03	33.2	2152	
K2028		02K1-50P20A WG-W0YL8-03	50	0.81	0.38	1.78	27.4	2.0	31.4	2.03	35.7	2420	

TX - TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Inn. Jkt. Thickness mm	Dia.Over Inn. Jkt. mm	Arm. Wire Dia. mm	Dia.Over Armour mm	Outer Jkt Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
16	T2015	02T1-01P16A WG-W0BL8-03	1	1.29	0.38	0.89	6.5	0.9	8.3	1.27	11.0	254
	T2016	02T1-02P20A WG-W0BL8-03	2	0.81	0.38	1.01	8.5	0.9	10.3	1.27	12.9	316
	T2017	02T1-03P20A WG-W0BL8-03	3	0.81	0.38	1.01	9.1	0.9	10.9	1.27	13.6	349
	T2018	02T1-04P20A WG-W0BL8-03	4	0.81	0.38	1.01	9.8	0.9	11.6	1.27	14.2	382
	T2019	02T1-06P20A WG-W0BL8-03	6	0.81	0.38	1.27	11.8	1.25	14.3	1.52	17.5	604
	T2020	02T1-08P20A WG-W0BL8-03	8	0.81	0.38	1.27	12.4	1.25	14.9	1.52	18.1	652
	T2021	02T1-12P20A WG-W0BL8-03	12	0.81	0.38	1.27	14.5	1.25	17.0	1.52	20.2	792
20	T2022	02T1-16P20A WG-W0BL8-03	16	0.81	0.38	1.52	16.7	1.6	19.9	1.78	23.7	1126
	T2023	02T1-20P20A WG-W0BL8-03	20	0.81	0.38	1.52	18.3	1.6	21.5	1.78	25.2	1260
	T2024	02T1-24P20A WG-W0BL8-03	24	0.81	0.38	1.52	19.7	1.6	22.9	1.78	26.6	1376
	T2025	02T1-32P20A WG-W0BL8-03	32	0.81	0.38	1.52	22.2	1.6	25.4	1.78	29.1	1616
	T2026	02T1-36P20A WG-W0BL8-03	36	0.81	0.38	1.78	23.9	2.0	27.9	1.78	31.6	1993
	T2027	02T1-40P20A WG-W0BL8-03	40	0.81	0.38	1.78	24.9	2.0	28.9	2.03	33.2	2163
	T2028	02T1-50P20A WG-W0BL8-03	50	0.81	0.38	1.78	27.4	2.0	31.4	2.03	35.7	2433

THERMOCOUPLE EXTENSION CABLE 300 VOLTS TYPE PLTC-90°C RATING WIRE ARMoured, PAIR AND OVERALL SHIELDED

Specification: UL13



Application: These cables are used on circuits where shielding from external interference and other pairs is required. Suitable for cable tray, conduit or direct burial application in dry or wet location. The wire armour provides longitudinal strength for use as a messenger cable or for support in vertical drops (NEC SECTION 300-19) and provides protection against mechanical damage.

- Conductor** : Solid alloy wire as per ANSI MC 96.1.
- Insulation** : Flame Retardant PVC rated 90°C as per UL13.
- Pair Twisting** : ANSI colour coded cores are twisted to counter electromagnetic noise.
- Pair & Overall Shielding** : Each pair is shielded with aluminium polyester tape & a tinned copper drain wire, for maximum electrostatic noise and crosstalk rejection. All pair shields are electrically isolated from each other. Individually shielded pairs are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
- Inner Jacket :** ANSI colour coded flame retardant PVC rated 90°C as per UL13.
- Wire Armour :** A serving of round soft galvanized steel wires is applied with 90% minimum coverage.
- Outer Jacket :** 1 Outer Jacket : ANSI color coded PVC rated 90°C as per UL13. Jacket is oil and sunlight resistant and passes IEEE 383 flame test.

COLOUR CODE AND LIMITS OF ERROR

ANSI Type	Positive Wire		Negative Wire		Jacket Colour	Temperature Range °C	Standard Error Limit. (±)
	Alloy	Colour	Alloy	Colour			
EX	Chromel	Purple	Constantan	Red	Purple	-18 to 204	2.22°C
JX	Iron	White	Constantan	Red	Black	-18 to 204	2.22°C
KX	Chromel	Yellow	Alumel	Red	Yellow	-18 to 204	2.22°C
TX	Copper	Blue	Constantan	Red	Blue	- 59 to 93	0.83°C

EX - TYPE

Size AWG	Order No.	MESC Code	Pairs	Conductor Diameter mm	Insulation Thickness mm	Inn. Jkt. Thickness mm	Dia.Over Inn. Jkt. mm	Arm. Wire Dia. mm	Dia.Over Armour mm	Outer Jkt Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
20	E4014	04E1-02P20A WG-W0PR8-03	2	0.81	0.38	1.01	9.0	0.9	10.8	1.27	13.5	340
	E4015	04E1-03P20A WG-W0PR8-03	3	0.81	0.38	1.01	9.7	0.9	11.5	1.27	14.2	385
	E4016	04E1-04P20A WG-W0PR8-03	4	0.81	0.38	1.27	11.0	0.9	12.8	1.52	16.0	474
	E4017	04E1-06P20A WG-W0PR8-03	6	0.81	0.38	1.27	12.6	1.25	15.1	1.52	18.3	663
	E4018	04E1-08P20A WG-W0PR8-03	8	0.81	0.38	1.27	13.2	1.25	15.7	1.52	18.9	733
	E4019	04E1-12P20A WG-W0PR8-03	12	0.81	0.38	1.52	16.0	1.25	18.5	1.52	21.7	946
	E4020	04E1-16P20A WG-W0PR8-03	16	0.81	0.38	1.52	17.9	1.6	21.1	1.78	24.9	1276
	E4021	04E1-20P20A WG-W0PR8-03	20	0.81	0.38	1.52	19.6	1.6	22.8	1.78	26.6	1437
	E4022	04E1-24P20A WG-W0PR8-03	24	0.81	0.38	1.52	21.2	1.6	24.4	1.78	28.1	1595
	E4023	04E1-32P20A WG-W0PR8-03	32	0.81	0.38	1.78	24.4	1.6	27.6	1.78	31.4	1944
	E4024	04E1-36P20A WG-W0PR8-03	36	0.81	0.38	1.78	25.7	2.0	29.7	2.03	33.9	2362
	E4025	04E1-40P20A WG-W0PR8-03	40	0.81	0.38	1.78	26.8	2.0	30.8	2.03	35.1	2493
	E4026	04E1-50P20A WG-W0PR8-03	50	0.81	0.38	1.78	29.5	2.0	33.5	2.03	37.8	2852

THERMOCOUPLE EXTENSION CABLE

300 VOLTS TYPE PLTC - 90°C RATING

WIRE ARMoured, PAIR AND OVERALL SHIELDED

JX -TYPE

Size	Order	MESC Code	Pairs	Conductor Diameter	Insulation Thickness	Inn. Jkt. Thickness	Dia.Over Inn. Jkt.	Arm. Wire Dia.	Dia.Over Armour	Outer Jkt Thickness	Approx. O. D.	Approx. Weight
AWG	No.			mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km
20	J4014	04J1-02P20A WG-W0BK8-03	2	0.81	0.38	1.01	9.0	0.9	10.8	1.27	13.5	339
	J4015	04J1-03P20A WG-W0BK8-03	3	0.81	0.38	1.01	9.7	0.9	11.5	1.27	14.2	384
	J4016	04J1-04P20A WG-W0BK8-03	4	0.81	0.38	1.27	11.0	0.9	12.8	1.52	16.0	472
	J4017	04J1-06P20A WG-W0BK8-03	6	0.81	0.38	1.27	12.6	1.25	15.1	1.52	18.3	660
	J4018	04J1-08P20A WG-W0BK8-03	8	0.81	0.38	1.27	13.2	1.25	15.7	1.52	18.9	730
	J4019	04J1-12P20A WG-W0BK8-03	12	0.81	0.38	1.52	16.0	1.25	18.5	1.52	21.7	940
	J4020	04J1-16P20A WG-W0BK8-03	16	0.81	0.38	1.52	17.9	1.6	21.1	1.78	24.9	1269
	J4021	04J1-20P20A WG-W0BK8-03	20	0.81	0.38	1.52	19.6	1.6	22.8	1.78	26.6	1428
	J4022	04J1-24P20A WG-W0BK8-03	24	0.81	0.38	1.52	21.2	1.6	24.4	1.78	28.1	1584
	J4023	04J1-32P20A WG-W0BK8-03	32	0.81	0.38	1.78	24.4	1.6	27.6	1.78	31.4	1930
	J4024	04J1-36P20A WG-W0BK8-03	36	0.81	0.38	1.78	25.7	2.0	29.7	2.03	33.9	2346
	J4025	04J1-40P20A WG-W0BK8-03	40	0.81	0.38	1.78	26.8	2.0	30.8	2.03	35.1	2475
	J4026	04J1-50P20A WG-W0BK8-03	50	0.81	0.38	1.78	29.5	2.0	33.5	2.03	37.8	2830

KX -TYPE

Size	Order	MESC Code	Pairs	Conductor Diameter	Insulation Thickness	Inn. Jkt. Thickness	Dia.Over Inn. Jkt.	Arm. Wire Dia.	Dia.Over Armour	Outer Jkt Thickness	Approx. O. D.	Approx. Weight
AWG	No.			mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km
20	K4014	04K1-02P20A WG-W0YL8-03	2	0.81	0.38	1.01	9.0	0.9	10.8	1.27	13.5	340
	K4015	04K1-03P20A WG-W0YL8-03	3	0.81	0.38	1.01	9.7	0.9	11.5	1.27	14.2	385
	K4016	04K1-04P20A WG-W0YL8-03	4	0.81	0.38	1.27	11.0	0.9	12.8	1.52	16.0	473
	K4017	04K1-06P20A WG-W0YL8-03	6	0.81	0.38	1.27	12.6	1.25	15.1	1.52	18.3	662
	K4018	04K1-08P20A WG-W0YL8-03	8	0.81	0.38	1.27	13.2	1.25	15.7	1.52	18.9	732
	K4019	04K1-12P20A WG-W0YL8-03	12	0.81	0.38	1.52	16.0	1.25	18.5	1.52	21.7	944
	K4020	04K1-16P20A WG-W0YL8-03	16	0.81	0.38	1.52	17.9	1.6	21.1	1.78	24.9	1274
	K4021	04K1-20P20A WG-W0YL8-03	20	0.81	0.38	1.52	19.6	1.6	22.8	1.78	26.6	1434
	K4022	04K1-24P20A WG-W0YL8-03	24	0.81	0.38	1.52	21.2	1.6	24.4	1.78	28.1	1591
	K4023	04K1-32P20A WG-W0YL8-03	32	0.81	0.38	1.78	24.4	1.6	27.6	1.78	31.4	1939
	K4024	04K1-36P20A WG-W0YL8-03	36	0.81	0.38	1.78	25.7	2.0	29.7	2.03	33.9	2357
	K4025	04K1-40P20A WG-W0YL8-03	40	0.81	0.38	1.78	26.8	2.0	30.8	2.03	35.1	2486
	K4026	04K1-50P20A WG-W0YL8-03	50	0.81	0.38	1.78	29.5	2.0	33.5	2.03	37.8	2845

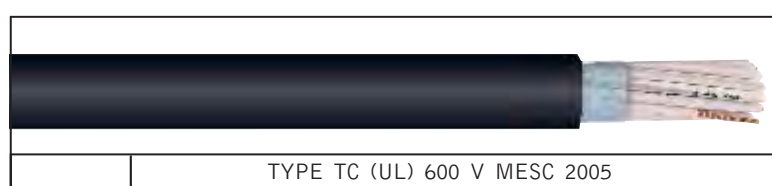
TX -TYPE

Size	Order	MESC Code	Pairs	Conductor Diameter	Insulation Thickness	Inn. Jkt. Thickness	Dia.Over Inn. Jkt.	Arm. Wire Dia.	Dia.Over Armour	Outer Jkt Thickness	Approx. O. D.	Approx. Weight
AWG	No.			mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km
20	T4014	04T1-02P20A WG-W0BL8-03	2	0.81	0.38	1.01	9.0	0.9	10.8	1.27	13.5	340
	T4015	04T1-03P20A WG-W0BL8-03	3	0.81	0.38	1.01	9.7	0.9	11.5	1.27	14.2	385
	T4016	04T1-04P20A WG-W0BL8-03	4	0.81	0.38	1.27	11.0	0.9	12.8	1.52	16.0	474
	T4017	04T1-06P20A WG-W0BL8-03	6	0.81	0.38	1.27	12.6	1.25	15.1	1.52	18.3	663
	T4018	04T1-08P20A WG-W0BL8-03	8	0.81	0.38	1.27	13.2	1.25	15.7	1.52	18.9	734
	T4019	04T1-12P20A WG-W0BL8-03	12	0.81	0.38	1.52	16.0	1.25	18.5	1.52	21.7	947
	T4020	04T1-16P20A WG-W0BL8-03	16	0.81	0.38	1.52	17.9	1.6	21.1	1.78	24.9	1278
	T4021	04T1-20P20A WG-W0BL8-03	20	0.81	0.38	1.52	19.6	1.6	22.8	1.78	26.6	1439
	T4022	04T1-24P20A WG-W0BL8-03	24	0.81	0.38	1.52	21.2	1.6	24.4	1.78	28.1	1597
	T4023	04T1-32P20A WG-W0BL8-03	32	0.81	0.38	1.78	24.4	1.6	27.6	1.78	31.4	1948
	T4024	04T1-36P20A WG-W0BL8-03	36	0.81	0.38	1.78	25.7	2.0	29.7	2.03	33.9	2366
	T4025	04T1-40P20A WG-W0BL8-03	40	0.81	0.38	1.78	26.8	2.0	30.8	2.03	35.1	2497
	T4026	04T1-50P20A WG-W0BL8-03	50	0.81	0.38	1.78	29.5	2.0	33.5	2.03	37.8	2858

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS TYPE TC (UL) XLPE INSULATED MULTICONDUCTOR UNSHIELDED CABLES

Temperature range - 40°C to +90°C

Specifications : UL1277,UL44 & NEMA WC70/ICEA S-95-658



Application : : Industrial signalling and process control circuit in dry or wet locations. The cable can be used in cable trays conduit or direct burial application.

Conductor : Plain copper to ASTM B3, stranded to class B of ASTM B8.

Insulation : Flame retardant XLPE to ICEA S- 95-658. UL Type XHHW conductors rated VW- 1.

Assembly : Insulated cores are cabled with suitable non-hygroscopic fillers and polyester binder if necessary.

Jacket : Extruded black PVC as per UL1277 , oil and sunlight Resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

XLPE INSULATED MULTICONDUCTOR UNSHIELDED CABLES

SIZE (AWG)	Order No.	MESC Code	Coductors	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16 *	01349	7614-02C16AWG-U0BK8-00	2	7 X 0.488	0.64	1.14	8.2	90
	01350	7614-03C16AWG-U0BK8-00	3	7 X 0.488	0.64	1.14	8.6	105
	01351	7614-04C16AWG-U0BK8-00	4	7 X 0.488	0.64	1.14	9.3	125
	01352	7614-05C16AWG-U0BK8-00	5	7 X 0.488	0.64	1.14	10.2	150
	01353	7614-06C16AWG-U0BK8-00	6	7 X 0.488	0.64	1.14	11.2	180
	01354	7614-07C16AWG-U0BK8-00	7	7 X 0.488	0.64	1.14	11.2	190
	01355	7614-08C16AWG-U0BK8-00	8	7 X 0.488	0.64	1.14	12.2	220
	01356	7614-09C16AWG-U0BK8-00	9	7 X 0.488	0.64	1.14	13.0	245
	01357	7614-10C16AWG-U0BK8-00	10	7 X 0.488	0.64	1.52	14.8	280
	01358	7614-12C16AWG-U0BK8-00	12	7 X 0.488	0.64	1.52	15.3	320
	01359	7614-15C16AWG-U0BK8-00	15	7 X 0.488	0.64	1.52	16.8	385
	01360	7614-16C16AWG-U0BK8-00	16	7 X 0.488	0.64	1.52	16.8	405
	01361	7614-19C16AWG-U0BK8-00	19	7 X 0.488	0.64	1.52	17.7	460
	01362	7614-20C16AWG-U0BK8-00	20	7 X 0.488	0.64	1.52	18.6	485
	01363	7614-24C16AWG-U0BK8-00	24	7 X 0.488	0.64	1.52	20.5	565
	01364	7614-25C16AWG-U0BK8-00	25	7 X 0.488	0.64	1.52	20.5	585
	01365	7614-27C16AWG-U0BK8-00	27	7 X 0.488	0.64	1.52	21.0	625
	01366	7614-30C16AWG-U0BK8-00	30	7 X 0.488	0.64	2.03	22.7	730
	01367	7614-37C16AWG-U0BK8-00	37	7 X 0.488	0.64	2.03	24.0	865
	01368	7614-48C16AWG-U0BK8-00	48	7 X 0.488	0.64	2.03	27.7	1080
01369	7614-61C16AWG-U0BK8-00	61	7 X 0.488	0.64	2.03	30.1	1325	

SIZE (AWG)	Order No.	MESC Code	Coductors	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
14	01370	7614-02C14AWG-U0BK8-00	2	7 X 0.615	0.76	1.14	9.4	125
	01371	7614-03C14AWG-U0BK8-00	3	7 X 0.615	0.76	1.14	10.0	150
	01372	7614-04C14AWG-U0BK8-00	4	7 X 0.615	0.76	1.14	10.9	180
	01373	7614-05C14AWG-U0BK8-00	5	7 X 0.615	0.76	1.14	11.9	215
	01374	7614-06C14AWG-U0BK8-00	6	7 X 0.615	0.76	1.14	13.1	260
	01375	7614-07C14AWG-U0BK8-00	7	7 X 0.615	0.76	1.14	13.1	270
	01376	7614-08C14AWG-U0BK8-00	8	7 X 0.615	0.76	1.52	15.0	335
	01377	7614-09C14AWG-U0BK8-00	9	7 X 0.615	0.76	1.52	16.0	380
	01378	7614-10C14AWG-U0BK8-00	10	7 X 0.615	0.76	1.52	17.4	405
	01379	7614-12C14AWG-U0BK8-00	12	7 X 0.615	0.76	1.52	17.9	460
	01380	7614-15C14AWG-U0BK8-00	15	7 X 0.615	0.76	1.52	19.8	560
	01381	7614-16C14AWG-U0BK8-00	16	7 X 0.615	0.76	1.52	19.8	590
	01382	7614-19C14AWG-U0BK8-00	19	7 X 0.615	0.76	1.52	20.8	670
	01383	7614-20C14AWG-U0BK8-00	20	7 X 0.615	0.76	2.03	23.0	765
	01384	7614-24C14AWG-U0BK8-00	24	7 X 0.615	0.76	2.03	25.3	885
	01385	7614-25C14AWG-U0BK8-00	25	7 X 0.615	0.76	2.03	25.3	915
	01386	7614-27C14AWG-U0BK8-00	27	7 X 0.615	0.76	2.03	25.9	975
	01387	7614-30C14AWG-U0BK8-00	30	7 X 0.615	0.76	2.03	26.8	1065
	01388	7614-37C14AWG-U0BK8-00	37	7 X 0.615	0.76	2.03	28.8	1265
	01389	7614-48C14AWG-U0BK8-00	48	7 X 0.615	0.76	2.03	32.9	1600
01390	7614-61C14AWG-U0BK8-00	61	7 X 0.615	0.76	2.03	35.8	1965	

* Non XHHW Size, complies with NEMA WC70.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

XLPE INSULATED MULTICONDUCTOR

UNSHIELDED CABLES

SIZE (AWG)	Order No.	MESC Code	Conductors	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
12	01391	7614-02C12AWG-U0BK8-00	2	7 X 0.775	0.76	1.14	10.4	165
	01392	7614-03C12AWG-U0BK8-00	3	7 X 0.775	0.76	1.14	11.0	195
	01393	7614-04C12AWG-U0BK8-00	4	7 X 0.775	0.76	1.14	12.0	240
	01394	7614-05C12AWG-U0BK8-00	5	7 X 0.775	0.76	1.14	13.1	290
	01395	7614-06C12AWG-U0BK8-00	6	7 X 0.775	0.76	1.52	15.3	375
	01396	7614-07C12AWG-U0BK8-00	7	7 X 0.775	0.76	1.52	15.3	395
	01397	7614-08C12AWG-U0BK8-00	8	7 X 0.775	0.76	1.52	16.6	455
	01398	7614-09C12AWG-U0BK8-00	9	7 X 0.775	0.76	1.52	17.7	510
	01399	7614-10C12AWG-U0BK8-00	10	7 X 0.775	0.76	1.52	19.2	545
	01400	7614-12C12AWG-U0BK8-00	12	7 X 0.775	0.76	1.52	19.9	630
	01401	7614-15C12AWG-U0BK8-00	15	7 X 0.775	0.76	2.03	23.0	815
	01402	7614-16C12AWG-U0BK8-00	16	7 X 0.775	0.76	2.03	23.0	860
	01403	7614-19C12AWG-U0BK8-00	19	7 X 0.775	0.76	2.03	24.2	980
	01404	7614-20C12AWG-U0BK8-00	20	7 X 0.775	0.76	2.03	25.5	1040
	01405	7614-24C12AWG-U0BK8-00	24	7 X 0.775	0.76	2.03	28.1	1210
	01406	7614-25C12AWG-U0BK8-00	25	7 X 0.775	0.76	2.03	28.1	1255
	01407	7614-27C12AWG-U0BK8-00	27	7 X 0.775	0.76	2.03	28.8	1340
	01408	7614-30C12AWG-U0BK8-00	30	7 X 0.775	0.76	2.03	29.8	1465
	01409	7614-37C12AWG-U0BK8-00	37	7 X 0.775	0.76	2.03	32.1	1755
	01410	7614-48C12AWG-U0BK8-00	48	7 X 0.775	0.76	2.03	36.7	2225
01411	7614-61C12AWG-U0BK8-00	61	7 X 0.775	0.76	2.03	40.0	2750	

SIZE (AWG)	Order No.	MESC Code	Conductors	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
10	01412	7614-02C10AWG-U0BK8-00	2	7 X 0.978	0.76	1.14	11.6	220
	01413	7614-03C10AWG-U0BK8-00	3	7 X 0.978	0.76	1.14	12.3	270
	01414	7614-04C10AWG-U0BK8-00	4	7 X 0.978	0.76	1.52	14.2	355
	01415	7614-05C10AWG-U0BK8-00	5	7 X 0.978	0.76	1.52	15.5	430
	01416	7614-06C10AWG-U0BK8-00	6	7 X 0.978	0.76	1.52	17.1	515
	01417	7614-07C10AWG-U0BK8-00	7	7 X 0.978	0.76	1.52	17.1	550
	01418	7614-08C10AWG-U0BK8-00	8	7 X 0.978	0.76	1.52	18.6	635
	01419	7614-09C10AWG-U0BK8-00	9	7 X 0.978	0.76	1.52	19.9	720
	01420	7614-10C10AWG-U0BK8-00	10	7 X 0.978	0.76	2.03	22.7	815
	01421	7614-12C10AWG-U0BK8-00	12	7 X 0.978	0.76	2.03	23.4	940
	01422	7614-15C10AWG-U0BK8-00	15	7 X 0.978	0.76	2.03	25.9	1150
	01423	7614-16C10AWG-U0BK8-00	16	7 X 0.978	0.76	2.03	25.9	1215
	01424	7614-19C10AWG-U0BK8-00	19	7 X 0.978	0.76	2.03	27.2	1385
	01425	7614-20C10AWG-U0BK8-00	20	7 X 0.978	0.76	2.03	28.7	1470
	01426	7614-24C10AWG-U0BK8-00	24	7 X 0.978	0.76	2.03	31.8	1725
	01427	7614-25C10AWG-U0BK8-00	25	7 X 0.978	0.76	2.03	31.8	1790
	01428	7614-27C10AWG-U0BK8-00	27	7 X 0.978	0.76	2.03	32.5	1905
	01429	7614-30C10AWG-U0BK8-00	30	7 X 0.978	0.76	2.03	33.7	2095
	01430	7614-37C10AWG-U0BK8-00	37	7 X 0.978	0.76	2.03	36.3	2520
	01431	7614-48C10AWG-U0BK8-00	48	7 X 0.978	0.76	2.03	41.6	3205

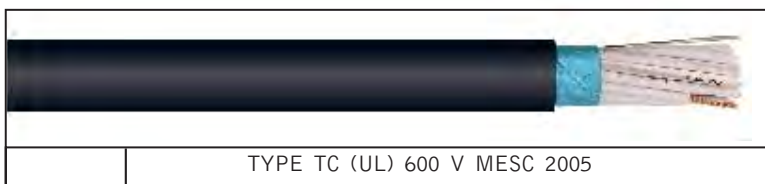
INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

XLPE INSULATED MULTICONDUCTOR SHIELDED CABLES

Temperature range - 40°C to +90°C

Specifications : UL1277,UL44 & NEMA WC57/ICEA S-73-532



Application : : Industrial signalling and process control circuit in dry or wet locations. The cable can be used in cable trays conduit or direct burial application.

Conductor : Plain copper to ASTM B3, stranded to class B of ASTM B8.

Insulation : Flame retardant XLPE to ICEA S- 73-532. UL Type XHHW conductors rated VW-1.

Assembly : Insulated cores are cabled and shielded with aluminum polyester tape for 100% coverage with a tinned copper drain wire.

Jacket : Extruded black PVC as per UL1277 , oil and sunlight Resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

XLPE INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
16 *	02325	0214-02C16AWG-U0BK8-06	2	7 X 0.488	0.64	1.14	8.7	110
	02326	0214-03C16AWG-U0BK8-06	3	7 X 0.488	0.64	1.14	9.1	125
	02327	0214-04C16AWG-U0BK8-06	4	7 X 0.488	0.64	1.14	9.8	140
	02328	0214-05C16AWG-U0BK8-06	5	7 X 0.488	0.64	1.14	10.7	165
	02329	0214-06C16AWG-U0BK8-06	6	7 X 0.488	0.64	1.14	11.5	190
	02330	0214-07C16AWG-U0BK8-06	7	7 X 0.488	0.64	1.14	11.5	200
	02331	0214-08C16AWG-U0BK8-06	8	7 X 0.488	0.64	1.14	12.5	230
	02332	0214-09C16AWG-U0BK8-06	9	7 X 0.488	0.64	1.52	14.1	280
	02333	0214-10C16AWG-U0BK8-06	10	7 X 0.488	0.64	1.52	15.1	295
	02334	0214-12C16AWG-U0BK8-06	12	7 X 0.488	0.64	1.52	15.6	335
	02335	0214-15C16AWG-U0BK8-06	15	7 X 0.488	0.64	1.52	17.1	400
	02336	0214-16C16AWG-U0BK8-06	16	7 X 0.488	0.64	1.52	17.1	420
	02337	0214-19C16AWG-U0BK8-06	19	7 X 0.488	0.64	1.52	18.0	475
	02338	0214-20C16AWG-U0BK8-06	20	7 X 0.488	0.64	1.52	18.9	500
	02339	0214-24C16AWG-U0BK8-06	24	7 X 0.488	0.64	1.52	20.8	580
	02340	0214-25C16AWG-U0BK8-06	25	7 X 0.488	0.64	1.52	20.8	600
	02341	0214-27C16AWG-U0BK8-06	27	7 X 0.488	0.64	2.03	22.3	685
	02342	0214-30C16AWG-U0BK8-06	30	7 X 0.488	0.64	2.03	23.0	745
	02343	0214-37C16AWG-U0BK8-06	37	7 X 0.488	0.64	2.03	24.7	880
	02344	0214-48C16AWG-U0BK8-06	48	7 X 0.488	0.64	2.03	28.0	1100
02345	0214-61C16AWG-U0BK8-06	61	7 X 0.488	0.64	2.03	30.4	1340	

Size (AWG)	Order No.	MESC Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
14	02346	0214-02C14AWG-U0BK8-06	2	7 X 0.615	0.76	1.14	9.9	150
	02347	0214-03C14AWG-U0BK8-06	3	7 X 0.615	0.76	1.14	10.5	175
	02348	0214-04C14AWG-U0BK8-06	4	7 X 0.615	0.76	1.14	11.4	195
	02349	0214-05C14AWG-U0BK8-06	5	7 X 0.615	0.76	1.14	12.4	235
	02350	0214-06C14AWG-U0BK8-06	6	7 X 0.615	0.76	1.14	13.4	270
	02351	0214-07C14AWG-U0BK8-06	7	7 X 0.615	0.76	1.14	13.4	285
	02352	0214-08C14AWG-U0BK8-06	8	7 X 0.615	0.76	1.52	15.3	355
	02353	0214-09C14AWG-U0BK8-06	9	7 X 0.615	0.76	1.52	16.3	395
	02354	0214-10C14AWG-U0BK8-06	10	7 X 0.615	0.76	1.52	17.7	420
	02355	0214-12C14AWG-U0BK8-06	12	7 X 0.615	0.76	1.52	18.2	480
	02356	0214-15C14AWG-U0BK8-06	15	7 X 0.615	0.76	1.52	20.1	575
	02357	0214-16C14AWG-U0BK8-06	16	7 X 0.615	0.76	1.52	20.1	610
	02358	0214-19C14AWG-U0BK8-06	19	7 X 0.615	0.76	2.03	22.2	740
	02359	0214-20C14AWG-U0BK8-06	20	7 X 0.615	0.76	2.03	23.3	780
	02360	0214-24C14AWG-U0BK8-06	24	7 X 0.615	0.76	2.03	25.6	905
	02361	0214-25C14AWG-U0BK8-06	25	7 X 0.615	0.76	2.03	25.6	935
	02362	0214-27C14AWG-U0BK8-06	27	7 X 0.615	0.76	2.03	26.2	995
	02363	0214-30C14AWG-U0BK8-06	30	7 X 0.615	0.76	2.03	27.1	1085
	02364	0214-37C14AWG-U0BK8-06	37	7 X 0.615	0.76	2.03	29.1	1285
	02365	0214-48C14AWG-U0BK8-06	48	7 X 0.615	0.76	2.03	33.2	1620
02366	0214-61C14AWG-U0BK8-06	61	7 X 0.615	0.76	2.03	36.1	1985	

* Non XHHW size, complies with NEMA WC57.

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS TYPE TC (UL) XLPE INSULATED MULTICONDUCTOR SHIELDED CABLES

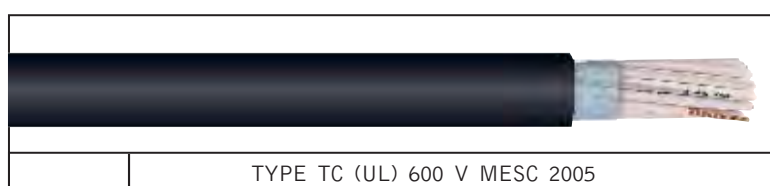
Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
12	02367	0214-02C 12AWG-U0BK8-06	2	7 X 0.775	0.76	1.14	10.9	195
	02368	0214-03C 12AWG-U0BK8-06	3	7 X 0.775	0.76	1.14	11.5	230
	02369	0214-04C 12AWG-U0BK8-06	4	7 X 0.775	0.76	1.14	12.5	265
	02370	0214-05C 12AWG-U0BK8-06	5	7 X 0.775	0.76	1.14	13.6	315
	02371	0214-06C 12AWG-U0BK8-06	6	7 X 0.775	0.76	1.52	15.6	400
	02372	0214-07C 12AWG-U0BK8-06	7	7 X 0.775	0.76	1.52	15.6	415
	02373	0214-08C 12AWG-U0BK8-06	8	7 X 0.775	0.76	1.52	16.9	475
	02374	0214-09C 12AWG-U0BK8-06	9	7 X 0.775	0.76	1.52	18.0	535
	02375	0214-10C 12AWG-U0BK8-06	10	7 X 0.775	0.76	1.52	19.5	565
	02376	0214-12C 12AWG-U0BK8-06	12	7 X 0.775	0.76	1.52	20.2	655
	02377	0214-15C 12AWG-U0BK8-06	15	7 X 0.775	0.76	2.03	23.3	840
	02378	0214-16C 12AWG-U0BK8-06	16	7 X 0.775	0.76	2.03	23.3	885
	02379	0214-19C 12AWG-U0BK8-06	19	7 X 0.775	0.76	2.03	24.5	1005
	02380	0214-20C 12AWG-U0BK8-06	20	7 X 0.775	0.76	2.03	25.8	1065
	02381	0214-24C 12AWG-U0BK8-06	24	7 X 0.775	0.76	2.03	28.4	1240
	02382	0214-25C 12AWG-U0BK8-06	25	7 X 0.775	0.76	2.03	28.4	1280
	02383	0214-27C 12AWG-U0BK8-06	27	7 X 0.775	0.76	2.03	29.1	1365
	02384	0214-30C 12AWG-U0BK8-06	30	7 X 0.775	0.76	2.03	30.1	1495
	02385	0214-37C 12AWG-U0BK8-06	37	7 X 0.775	0.76	2.03	32.4	1785
	02386	0214-48C 12AWG-U0BK8-06	48	7 X 0.775	0.76	2.03	37.0	2255
02387	0214-61C 12AWG-U0BK8-06	61	7 X 0.775	0.76	2.03	40.3	2780	

Size (AWG)	Order No.	MES C Code	Conductors	Strands X Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km
10	02388	0214-02C 10AWG-U0BK8-06	2	7 X 0.978	0.76	1.14	12.1	265
	02389	0214-03C 10AWG-U0BK8-06	3	7 X 0.978	0.76	1.14	12.8	315
	02390	0214-04C 10AWG-U0BK8-06	4	7 X 0.978	0.76	1.52	14.7	390
	02391	0214-05C 10AWG-U0BK8-06	5	7 X 0.978	0.76	1.52	16.0	465
	02392	0214-06C 10AWG-U0BK8-06	6	7 X 0.978	0.76	1.52	17.4	550
	02393	0214-07C 10AWG-U0BK8-06	7	7 X 0.978	0.76	1.52	17.4	585
	02394	0214-08C 10AWG-U0BK8-06	8	7 X 0.978	0.76	1.52	18.9	670
	02395	0214-09C 10AWG-U0BK8-06	9	7 X 0.978	0.76	1.52	20.2	750
	02396	0214-10C 10AWG-U0BK8-06	10	7 X 0.978	0.76	2.03	23.0	850
	02397	0214-12C 10AWG-U0BK8-06	12	7 X 0.978	0.76	2.03	23.7	975
	02398	0214-15C 10AWG-U0BK8-06	15	7 X 0.978	0.76	2.03	26.2	1185
	02399	0214-16C 10AWG-U0BK8-06	16	7 X 0.978	0.76	2.03	26.2	1250
	02400	0214-19C 10AWG-U0BK8-06	19	7 X 0.978	0.76	2.03	27.5	1425
	02401	0214-20C 10AWG-U0BK8-06	20	7 X 0.978	0.76	2.03	29.0	1505
	02402	0214-24C 10AWG-U0BK8-06	24	7 X 0.978	0.76	2.03	32.1	1765
	02403	0214-25C 10AWG-U0BK8-06	25	7 X 0.978	0.76	2.03	32.1	1830
	02404	0214-27C 10AWG-U0BK8-06	27	7 X 0.978	0.76	2.03	32.8	1945
	02405	0214-30C 10AWG-U0BK8-06	30	7 X 0.978	0.76	2.03	34.0	2135
	02406	0214-37C 10AWG-U0BK8-06	37	7 X 0.978	0.76	2.03	36.6	2560
	02407	0214-48C 10AWG-U0BK8-06	48	7 X 0.978	0.76	2.03	41.9	3250

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS TYPE TC (UL) PVC INSULATED MULTICONDUCTOR UNSHIELDED CABLES

Temperature range - 40°C to + 90°C

Specifications : UL1277 , UL 83 & NEMA WC70/ICEA S-95-658



- Application** : Industrial signalling and process control circuit in dry or wet locations.
The cable can be used in cable trays conduit or direct burial application.
- **Conductor** : Plain copper to ASTM B3, stranded to class B of ASTM B8.
 - **Insulation** : Flame retardant PVC rated 90°C to UL 1581.UL Type THHW conductors rated VW-1.
 - **Assembly** : Insulated cores are cabled with suitable non-hygroscopic fillers and polyester binder if necessary.
 - **Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

PVC INSULATED MULTICONDUCTOR

UNSHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
16	01432	7311-02C16AWG-U0BK8-00	2	7 X 0.488	0.76	1.14	8.7	107
	01433	7311-03C16AWG-U0BK8-00	3	7 X 0.488	0.76	1.14	9.2	127
	01434	7311-04C16AWG-U0BK8-00	4	7 X 0.488	0.76	1.14	9.9	150
	01435	7311-05C16AWG-U0BK8-00	5	7 X 0.488	0.76	1.14	10.8	181
	01436	7311-06C16AWG-U0BK8-00	6	7 X 0.488	0.76	1.14	12.0	220
	01437	7311-07C16AWG-U0BK8-00	7	7 X 0.488	0.76	1.14	12.0	230
	01438	7311-08C16AWG-U0BK8-00	8	7 X 0.488	0.76	1.14	13.0	268
	01439	7311-09C16AWG-U0BK8-00	9	7 X 0.488	0.76	1.52	14.6	330
	01440	7311-10C16AWG-U0BK8-00	10	7 X 0.488	0.76	1.52	15.8	343
	01441	7311-12C16AWG-U0BK8-00	12	7 X 0.488	0.76	1.52	16.3	392
	01442	7311-15C16AWG-U0BK8-00	15	7 X 0.488	0.76	1.52	18.0	475
	01443	7311-16C16AWG-U0BK8-00	16	7 X 0.488	0.76	1.52	18.0	501
	01444	7311-19C16AWG-U0BK8-00	19	7 X 0.488	0.76	1.52	18.9	567
	01445	7311-20C16AWG-U0BK8-00	20	7 X 0.488	0.76	1.52	19.9	604
	01446	7311-24C16AWG-U0BK8-00	24	7 X 0.488	0.76	2.03	23.0	754
	01447	7311-25C16AWG-U0BK8-00	25	7 X 0.488	0.76	2.03	23.0	778
	01448	7311-27C16AWG-U0BK8-00	27	7 X 0.488	0.76	2.03	23.5	826
	01449	7311-30C16AWG-U0BK8-00	30	7 X 0.488	0.76	2.03	24.3	901
	01450	7311-37C16AWG-U0BK8-00	37	7 X 0.488	0.76	2.03	26.1	1070
	01451	7311-48C16AWG-U0BK8-00	48	7 X 0.488	0.76	2.03	29.7	1347
	01452	7311-61C16AWG-U0BK8-00	61	7 X 0.488	0.76	2.03	32.3	1655

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
14	01453	7311-02C14AWG-U0BK8-00	2	7 X 0.615	1.14	1.14	11.0	171
	01454	7311-03C14AWG-U0BK8-00	3	7 X 0.615	1.14	1.14	11.6	203
	01455	7311-04C14AWG-U0BK8-00	4	7 X 0.615	1.14	1.14	12.7	246
	01456	7311-05C14AWG-U0BK8-00	5	7 X 0.615	1.14	1.52	14.7	323
	01457	7311-06C14AWG-U0BK8-00	6	7 X 0.615	1.14	1.52	16.2	389
	01458	7311-07C14AWG-U0BK8-00	7	7 X 0.615	1.14	1.52	16.2	405
	01459	7311-08C14AWG-U0BK8-00	8	7 X 0.615	1.14	1.52	17.6	474
	01460	7311-09C14AWG-U0BK8-00	9	7 X 0.615	1.14	1.52	18.8	542
	01461	7311-10C14AWG-U0BK8-00	10	7 X 0.615	1.14	1.52	20.4	557
	01462	7311-12C14AWG-U0BK8-00	12	7 X 0.615	1.14	1.52	21.2	643
	01463	7311-15C14AWG-U0BK8-00	15	7 X 0.615	1.14	2.03	24.4	838
	01464	7311-16C14AWG-U0BK8-00	16	7 X 0.615	1.14	2.03	24.4	885
	01465	7311-19C14AWG-U0BK8-00	19	7 X 0.615	1.14	2.03	25.7	1005
	01466	7311-20C14AWG-U0BK8-00	20	7 X 0.615	1.14	2.03	27.1	1071
	01467	7311-24C14AWG-U0BK8-00	24	7 X 0.615	1.14	2.03	29.9	1240
	01468	7311-25C14AWG-U0BK8-00	25	7 X 0.615	1.14	2.03	29.9	1282
	01469	7311-27C14AWG-U0BK8-00	27	7 X 0.615	1.14	2.03	30.6	1364
	01470	7311-30C14AWG-U0BK8-00	30	7 X 0.615	1.14	2.03	31.6	1486
	01471	7311-37C14AWG-U0BK8-00	37	7 X 0.615	1.14	2.03	34.1	1779
	01472	7311-48C14AWG-U0BK8-00	48	7 X 0.615	1.14	2.03	39.1	2256
	01473	7311-61C14AWG-U0BK8-00	61	7 X 0.615	1.14	2.79	44.1	2930

* Non THHW size, complies with WC70.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

PVC INSULATED MULTICONDUCTOR

UNSHIELDED CABLES

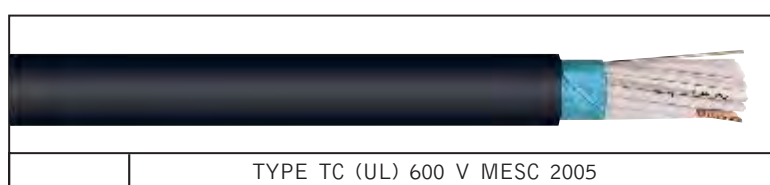
Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
12	01474	7311-02C12AWG-U0BK8-00	2	7 X 0.775	1.14	1.14	11.9	213
	01475	7311-03C12AWG-U0BK8-00	3	7 X 0.775	1.14	1.14	12.6	258
	01476	7311-04C12AWG-U0BK8-00	4	7 X 0.775	1.14	1.52	14.6	340
	01477	7311-05C12AWG-U0BK8-00	5	7 X 0.775	1.14	1.52	16.0	413
	01478	7311-06C12AWG-U0BK8-00	6	7 X 0.775	1.14	1.52	17.6	495
	01479	7311-07C12AWG-U0BK8-00	7	7 X 0.775	1.14	1.52	17.6	519
	01480	7311-08C12AWG-U0BK8-00	8	7 X 0.775	1.14	1.52	19.1	606
	01481	7311-09C12AWG-U0BK8-00	9	7 X 0.775	1.14	1.52	20.5	697
	01482	7311-10C12AWG-U0BK8-00	10	7 X 0.775	1.14	2.03	23.3	774
	01483	7311-12C12AWG-U0BK8-00	12	7 X 0.775	1.14	2.03	24.0	886
	01484	7311-15C12AWG-U0BK8-00	15	7 X 0.775	1.14	2.03	26.6	1081
	01485	7311-16C12AWG-U0BK8-00	16	7 X 0.775	1.14	2.03	26.6	1143
	01486	7311-19C12AWG-U0BK8-00	19	7 X 0.775	1.14	2.03	28.0	1302
	01487	7311-20C12AWG-U0BK8-00	20	7 X 0.775	1.14	2.03	29.6	1391
	01488	7311-24C12AWG-U0BK8-00	24	7 X 0.775	1.14	2.03	32.7	1615
	01489	7311-25C12AWG-U0BK8-00	25	7 X 0.775	1.14	2.03	32.7	1673
	01490	7311-27C12AWG-U0BK8-00	27	7 X 0.775	1.14	2.03	33.5	1785
	01491	7311-30C12AWG-U0BK8-00	30	7 X 0.775	1.14	2.03	34.6	1949
01492	7311-37C12AWG-U0BK8-00	37	7 X 0.775	1.14	2.03	37.4	2345	
01493	7311-48C12AWG-U0BK8-00	48	7 X 0.775	1.14	2.79	44.4	3130	

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
10	01494	7311-02C10AWG-U0BK8-00	2	7 X 0.978	1.14	1.14	13.1	276
	01495	7311-03C10AWG-U0BK8-00	3	7 X 0.978	1.14	1.52	14.7	367
	01496	7311-04C10AWG-U0BK8-00	4	7 X 0.978	1.14	1.52	16.0	446
	01497	7311-05C10AWG-U0BK8-00	5	7 X 0.978	1.14	1.52	17.6	545
	01498	7311-06C10AWG-U0BK8-00	6	7 X 0.978	1.14	1.52	19.4	655
	01499	7311-07C10AWG-U0BK8-00	7	7 X 0.978	1.14	1.52	19.4	695
	01500	7311-08C10AWG-U0BK8-00	8	7 X 0.978	1.14	2.03	22.2	866
	01501	7311-09C10AWG-U0BK8-00	9	7 X 0.978	1.14	2.03	23.7	988
	01502	7311-10C10AWG-U0BK8-00	10	7 X 0.978	1.14	2.03	25.7	1027
	01503	7311-12C10AWG-U0BK8-00	12	7 X 0.978	1.14	2.03	26.6	1191
	01504	7311-15C10AWG-U0BK8-00	15	7 X 0.978	1.14	2.03	29.4	1450
	01505	7311-16C10AWG-U0BK8-00	16	7 X 0.978	1.14	2.03	29.4	1537
	01506	7311-19C10AWG-U0BK8-00	19	7 X 0.978	1.14	2.03	31.0	1762
	01507	7311-20C10AWG-U0BK8-00	20	7 X 0.978	1.14	2.03	32.8	1879
	01508	7311-24C10AWG-U0BK8-00	24	7 X 0.978	1.14	2.03	36.3	2191
	01509	7311-25C10AWG-U0BK8-00	25	7 X 0.978	1.14	2.03	36.3	2272
	01510	7311-27C10AWG-U0BK8-00	27	7 X 0.978	1.14	2.03	37.2	2428
	01511	7311-30C10AWG-U0BK8-00	30	7 X 0.978	1.14	2.03	38.5	2663
01512	7311-37C10AWG-U0BK8-00	37	7 X 0.978	1.14	2.03	41.7	3221	

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS TYPE TC (UL) PVC INSULATED MULTICONDUCTOR SHIELDED CABLES

Temperature range - 40°C to + 90°C

Specifications : UL1277, UL83 & NEMA WC57/ICEA S-73-532



- Application :** : Industrial signalling and process control circuit in dry or wet locations.
The cable can be used in cable trays conduit or direct burial application.
- **Conductor** : Plain copper to ASTM B3, stranded to class B of ASTM B8.
 - **Insulation** : Flame retardant PVC rated 90°C to UL 1581. UL Type THHW conductors rated VW-1.
 - **Shielding** : Insulated cores are cabled and shielded with aluminium polyester tape for 100% coverage with a tinned copper drain wire.
 - **Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Colour Code	
Conductor No.	Colour
1	Black
2	Red
3	Blue
4	Orange
5	Yellow
6 and above	Black with number printing
Other colour codes can be manufactured on request	

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS TYPE TC (UL) PVC INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
16	02408	0211-02C16AWG-U0BK8-06	2	7 X 0.488	0.76	1.14	9.0	117
	02409	0211-03C16AWG-U0BK8-06	3	7 X 0.488	0.76	1.14	9.5	137
	02410	0211-04C16AWG-U0BK8-06	4	7 X 0.488	0.76	1.14	10.2	161
	02411	0211-05C16AWG-U0BK8-06	5	7 X 0.488	0.76	1.14	11.1	192
	02412	0211-06C16AWG-U0BK8-06	6	7 X 0.488	0.76	1.14	12.1	229
	02413	0211-07C16AWG-U0BK8-06	7	7 X 0.488	0.76	1.14	12.1	239
	02414	0211-08C16AWG-U0BK8-06	8	7 X 0.488	0.76	1.14	13.1	277
	02415	0211-09C16AWG-U0BK8-06	9	7 X 0.488	0.76	1.52	14.7	339
	02416	0211-10C16AWG-U0BK8-06	10	7 X 0.488	0.76	1.52	15.9	353
	02417	0211-12C16AWG-U0BK8-06	12	7 X 0.488	0.76	1.52	16.4	402
	02418	0211-15C16AWG-U0BK8-06	15	7 X 0.488	0.76	1.52	18.1	486
	02419	0211-16C16AWG-U0BK8-06	16	7 X 0.488	0.76	1.52	18.1	512
	02420	0211-19C16AWG-U0BK8-06	19	7 X 0.488	0.76	1.52	19.0	579
	02421	0211-20C16AWG-U0BK8-06	20	7 X 0.488	0.76	1.52	20.0	615
	02422	0211-24C16AWG-U0BK8-06	24	7 X 0.488	0.76	2.03	23.1	766
	02423	0211-25C16AWG-U0BK8-06	25	7 X 0.488	0.76	2.03	23.1	790
	02424	0211-27C16AWG-U0BK8-06	27	7 X 0.488	0.76	2.03	23.6	838
	02425	0211-30C16AWG-U0BK8-06	30	7 X 0.488	0.76	2.03	24.4	913
	02426	0211-37C16AWG-U0BK8-06	37	7 X 0.488	0.76	2.03	26.2	1083
	02427	0211-48C16AWG-U0BK8-06	48	7 X 0.488	0.76	2.03	29.8	1361
02428	0211-61C16AWG-U0BK8-06	61	7 X 0.488	0.76	2.03	32.4	1669	

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
14	02429	0211-02C14AWG-U0BK8-06	2	7 X 0.615	1.14	1.14	11.3	186
	02430	0211-03C14AWG-U0BK8-06	3	7 X 0.615	1.14	1.14	11.9	218
	02431	0211-04C14AWG-U0BK8-06	4	7 X 0.615	1.14	1.14	13.0	261
	02432	0211-05C14AWG-U0BK8-06	5	7 X 0.615	1.14	1.52	15.0	340
	02433	0211-06C14AWG-U0BK8-06	6	7 X 0.615	1.14	1.52	16.3	403
	02434	0211-07C14AWG-U0BK8-06	7	7 X 0.615	1.14	1.52	16.3	419
	02435	0211-08C14AWG-U0BK8-06	8	7 X 0.615	1.14	1.52	17.7	488
	02436	0211-09C14AWG-U0BK8-06	9	7 X 0.615	1.14	1.52	18.9	557
	02437	0211-10C14AWG-U0BK8-06	10	7 X 0.615	1.14	1.52	20.5	573
	02438	0211-12C14AWG-U0BK8-06	12	7 X 0.615	1.14	1.52	21.2	659
	02439	0211-15C14AWG-U0BK8-06	15	7 X 0.615	1.14	2.03	24.5	855
	02440	0211-16C14AWG-U0BK8-06	16	7 X 0.615	1.14	2.03	24.5	901
	02441	0211-19C14AWG-U0BK8-06	19	7 X 0.615	1.14	2.03	25.8	1021
	02442	0211-20C14AWG-U0BK8-06	20	7 X 0.615	1.14	2.03	27.2	1088
	02443	0211-24C14AWG-U0BK8-06	24	7 X 0.615	1.14	2.03	30.0	1258
	02444	0211-25C14AWG-U0BK8-06	25	7 X 0.615	1.14	2.03	30.0	1300
	02445	0211-27C14AWG-U0BK8-06	27	7 X 0.615	1.14	2.03	30.7	1382
	02446	0211-30C14AWG-U0BK8-06	30	7 X 0.615	1.14	2.03	31.7	1504
	02447	0211-37C14AWG-U0BK8-06	37	7 X 0.615	1.14	2.03	34.2	1798
	02448	0211-48C14AWG-U0BK8-06	48	7 X 0.615	1.14	2.03	39.2	2276
02449	0211-61C14AWG-U0BK8-06	61	7 X 0.615	1.14	2.79	44.2	2951	

* Non THHW size , complies with NEMA WC57.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS TYPE TC (UL)

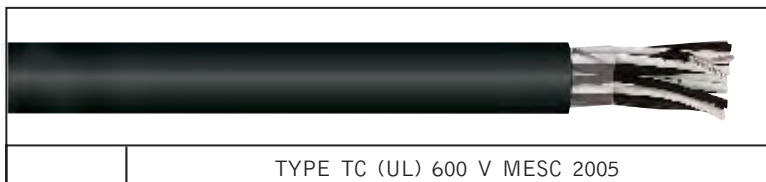
PVC INSULATED MULTICONDUCTOR SHIELDED CABLES

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
12	02450	0211-02C12AWG-U0BK8-06	2	7 X 0.775	1.14	1.14	12.2	244
	02451	0211-03C12AWG-U0BK8-06	3	7 X 0.775	1.14	1.14	12.9	289
	02452	0211-04C12AWG-U0BK8-06	4	7 X 0.775	1.14	1.52	14.9	366
	02453	0211-05C12AWG-U0BK8-06	5	7 X 0.775	1.14	1.52	16.3	439
	02454	0211-06C12AWG-U0BK8-06	6	7 X 0.775	1.14	1.52	17.7	517
	02455	0211-07C12AWG-U0BK8-06	7	7 X 0.775	1.14	1.52	17.7	542
	02456	0211-08C12AWG-U0BK8-06	8	7 X 0.775	1.14	1.52	19.2	629
	02457	0211-09C12AWG-U0BK8-06	9	7 X 0.775	1.14	1.52	20.6	721
	02458	0211-10C12AWG-U0BK8-06	10	7 X 0.775	1.14	2.03	23.4	798
	02459	0211-12C12AWG-U0BK8-06	12	7 X 0.775	1.14	2.03	24.1	911
	02460	0211-15C12AWG-U0BK8-06	15	7 X 0.775	1.14	2.03	26.7	1106
	02461	0211-16C12AWG-U0BK8-06	16	7 X 0.775	1.14	2.03	26.7	1168
	02462	0211-19C12AWG-U0BK8-06	19	7 X 0.775	1.14	2.03	28.1	1328
	02463	0211-20C12AWG-U0BK8-06	20	7 X 0.775	1.14	2.03	29.7	1417
	02464	0211-24C12AWG-U0BK8-06	24	7 X 0.775	1.14	2.03	32.8	1642
	02465	0211-25C12AWG-U0BK8-06	25	7 X 0.775	1.14	2.03	32.8	1700
	02466	0211-27C12AWG-U0BK8-06	27	7 X 0.775	1.14	2.03	33.6	1812
	02467	0211-30C12AWG-U0BK8-06	30	7 X 0.775	1.14	2.03	34.7	1976
	02468	0211-37C12AWG-U0BK8-06	37	7 X 0.775	1.14	2.03	37.5	2373
	02469	0211-48C12AWG-U0BK8-06	48	7 X 0.775	1.14	2.79	44.5	3160

Size (AWG)	Order No.	MESC Code	Conductors	StrandsX Diameter No. X mm	Insulation thickness mm	Nominal Jacket thickness mm	Approx. O. D. mm	Approx. Weight Kg./Km
10	02470	0211-02C10AWG-U0BK8-06	2	7 X 0.978	1.14	1.14	13.4	320
	02471	0211-03C10AWG-U0BK8-06	3	7 X 0.978	1.14	1.52	15.0	412
	02472	0211-04C10AWG-U0BK8-06	4	7 X 0.978	1.14	1.52	16.3	483
	02473	0211-05C10AWG-U0BK8-06	5	7 X 0.978	1.14	1.52	17.9	583
	02474	0211-06C10AWG-U0BK8-06	6	7 X 0.978	1.14	1.52	19.5	689
	02475	0211-07C10AWG-U0BK8-06	7	7 X 0.978	1.14	1.52	19.5	729
	02476	0211-08C10AWG-U0BK8-06	8	7 X 0.978	1.14	1.52	21.2	845
	02477	0211-09C10AWG-U0BK8-06	9	7 X 0.978	1.14	2.03	23.8	1023
	02478	0211-10C10AWG-U0BK8-06	10	7 X 0.978	1.14	2.03	25.8	1062
	02479	0211-12C10AWG-U0BK8-06	12	7 X 0.978	1.14	2.03	26.7	1227
	02480	0211-15C10AWG-U0BK8-06	15	7 X 0.978	1.14	2.03	29.5	1486
	02481	0211-16C10AWG-U0BK8-06	16	7 X 0.978	1.14	2.03	29.5	1573
	02482	0211-19C10AWG-U0BK8-06	19	7 X 0.978	1.14	2.03	31.1	1799
	02483	0211-20C10AWG-U0BK8-06	20	7 X 0.978	1.14	2.03	32.9	1916
	02484	0211-24C10AWG-U0BK8-06	24	7 X 0.978	1.14	2.03	36.4	2229
	02485	0211-25C10AWG-U0BK8-06	25	7 X 0.978	1.14	2.03	36.4	2310
	02486	0211-27C10AWG-U0BK8-06	27	7 X 0.978	1.14	2.03	37.3	2466
	02487	0211-30C10AWG-U0BK8-06	30	7 X 0.978	1.14	2.03	38.6	2702
	02488	0211-37C10AWG-U0BK8-06	37	7 X 0.978	1.14	2.03	41.8	3261

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS (TYPE TC) XLPE INSULATED MULTI PAIR / MULTI TRIAD UNSHIELDED

Temperature range - 40°C to + 90°C
Specifications : UL1277, ICEA S-82-552



- Application :** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.
- Conductor** : Tinned copper to ASTM B33, stranded to class-B/ class-C of ASTM B8 .
- Insulation** : Flame retardant XLPE to ICEA S-82-552. UL rated VW-1 conductors.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Assembly** : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is covered with a polyester tape if required.
- Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Note: Special jacket material (CPE) can be supplied on demand.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

XLPE INSULATED MULTI PAIR / MULTI TRIAD

UNSHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01513	0124-01P18AWG-U0BK8-06	1	7 X 0.386	0.64	1.14	7.8	65
	01514	0124-02P18AWG-U0BK8-06	2	7 X 0.386	0.64	1.14	11.9	110
	01515	0124-03P18AWG-U0BK8-06	3	7 X 0.386	0.64	1.14	12.9	140
	01516	0124-04P18AWG-U0BK8-06	4	7 X 0.386	0.64	1.52	14.7	195
	01517	0124-06P18AWG-U0BK8-06	6	7 X 0.386	0.64	1.52	16.9	255
	01518	0124-08P18AWG-U0BK8-06	8	7 X 0.386	0.64	1.52	17.9	310
	01519	0124-12P18AWG-U0BK8-06	12	7 X 0.386	0.64	2.03	22.1	475
	01520	0124-16P18AWG-U0BK8-06	16	7 X 0.386	0.64	2.03	24.8	595
	01521	0124-20P18AWG-U0BK8-06	20	7 X 0.386	0.64	2.03	27.2	710
	01522	0124-24P18AWG-U0BK8-06	24	7 X 0.386	0.64	2.03	29.3	820
	01523	0124-32P18AWG-U0BK8-06	32	7 X 0.386	0.64	2.03	33.2	1040
	01524	0124-36P18AWG-U0BK8-06	36	7 X 0.386	0.64	2.03	34.9	1150
	01525	0124-40P18AWG-U0BK8-06	40	7 X 0.386	0.64	2.03	36.6	1260
	01526	0124-50P18AWG-U0BK8-06	50	7 X 0.386	0.64	2.03	40.3	1525

SIZE (AWG)	Order No.	MESC Code	pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01527	0124-01P16AWG-U0BK8-06	1	7 X 0.488	0.64	1.14	8.4	75
	01528	0124-02P16AWG-U0BK8-06	2	7 X 0.488	0.64	1.14	13.0	135
	01529	0124-03P16AWG-U0BK8-06	3	7 X 0.488	0.64	1.52	14.9	200
	01530	0124-04P16AWG-U0BK8-06	4	7 X 0.488	0.64	1.52	16.0	245
	01531	0124-06P16AWG-U0BK8-06	6	7 X 0.488	0.64	1.52	18.5	330
	01532	0124-08P16AWG-U0BK8-06	8	7 X 0.488	0.64	1.52	19.5	400
	01533	0124-12P16AWG-U0BK8-06	12	7 X 0.488	0.64	2.03	24.2	615
	01534	0124-16P16AWG-U0BK8-06	16	7 X 0.488	0.64	2.03	27.2	780
	01535	0124-20P16AWG-U0BK8-06	20	7 X 0.488	0.64	2.03	29.9	935
	01536	0124-24P16AWG-U0BK8-06	24	7 X 0.488	0.64	2.03	32.3	1090
	01537	0124-32P16AWG-U0BK8-06	32	7 X 0.488	0.64	2.03	36.6	1395
	01538	0124-36P16AWG-U0BK8-06	36	7 X 0.488	0.64	2.03	38.5	1550
	01539	0124-40P16AWG-U0BK8-06	40	7 X 0.488	0.64	2.03	40.4	1695

SIZE (AWG)	Order No.	MESC Code	pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01540	0124-01P14AWG-U 0BK8-06	1	19 X 0.373	0.76	1.14	9.7	105
	01541	0124-02P14AWG-U 0BK8-06	2	19 X 0.373	0.76	1.52	16.1	215
	01542	0124-03P14AWG-U 0BK8-06	3	19 X 0.373	0.76	1.52	17.5	280
	01543	0124-04P14AWG-U 0BK8-06	4	19 X 0.373	0.76	1.52	18.9	340
	01544	0124-06P14AWG-U 0BK8-06	6	19 X 0.373	0.76	2.03	23.0	520
	01545	0124-08P14AWG-U 0BK8-06	8	19 X 0.373	0.76	2.03	24.2	635
	01546	0124-12P14AWG-U 0BK8-06	12	19 X 0.373	0.76	2.03	28.7	885
	01547	0124-16P14AWG-U 0BK8-06	16	19 X 0.373	0.76	2.03	32.4	1130
	01548	0124-20P14AWG-U 0BK8-06	20	19 X 0.373	0.76	2.03	35.7	1365
	01549	0124-24P14AWG-U 0BK8-06	24	19 X 0.373	0.76	2.03	38.7	1605
	01550	0124-30P14AWG-U 0BK8-06	30	19 X 0.373	0.76	2.03	42.7	1950

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

XLPE INSULATED MULTI PAIR / MULTI TRIAD

UNSHIELDED

TRIPLES

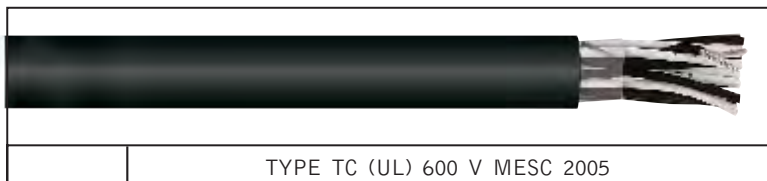
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01551	0124-01T18AWG-U0BK8-06	1	7 X 0.386	0.64	1.14	8.2	75
	01552	0124-02T18AWG-U0BK8-06	2	7 X 0.386	0.64	1.52	14.5	170
	01553	0124-03T18AWG-U0BK8-06	3	7 X 0.386	0.64	1.52	15.3	210
	01554	0124-04T18AWG-U0BK8-06	4	7 X 0.386	0.64	1.52	16.7	255
	01555	0124-06T18AWG-U0BK8-06	6	7 X 0.386	0.64	1.52	20.3	350
	01556	0124-08T18AWG-U0BK8-06	8	7 X 0.386	0.64	2.03	22.4	475
	01557	0124-12T18AWG-U0BK8-06	12	7 X 0.386	0.64	2.03	26.5	655
	01558	0124-16T18AWG-U0BK8-06	16	7 X 0.386	0.64	2.03	29.9	830
	01559	0124-20T18AWG-U0BK8-06	20	7 X 0.386	0.64	2.03	32.8	990
	01560	012424T18AWG-U0BK8-06	24	7 X 0.386	0.64	2.03	35.5	1155
	01561	0124-32T18AWG-U0BK8-06	32	7 X 0.386	0.64	2.03	40.3	1475
01562	0124-36T18AWG-U0BK8-06	36	7 X 0.386	0.64	2.03	42.5	1635	

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01563	0124-01T16AWG-U0BK8-06	1	7 X 0.488	0.64	1.14	8.9	95
	01564	0124-02T16AWG-U0BK8-06	2	7 X 0.488	0.64	1.52	15.8	210
	01565	0124-03T16AWG-U0BK8-06	3	7 X 0.488	0.64	1.52	16.7	265
	01566	0124-04T16AWG-U0BK8-06	4	7 X 0.488	0.64	1.52	18.2	325
	01567	0124-06T16AWG-U0BK8-06	6	7 X 0.488	0.64	2.03	23.3	510
	01568	0124-08T16AWG-U0BK8-06	8	7 X 0.488	0.64	2.03	24.6	620
	01569	0124-12T16AWG-U0BK8-06	12	7 X 0.488	0.64	2.03	29.1	865
	01570	0124-16T16AWG-U0BK8-06	16	7 X 0.488	0.64	2.03	32.9	1100
	01571	0124-20T16AWG-U0BK8-06	20	7 X 0.488	0.64	2.03	36.2	1330
	01572	0124-24T16AWG-U0BK8-06	24	7 X 0.488	0.64	2.03	39.2	1555

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01573	0124-01T14AWG-U0BK8-06	1	19 X 0.373	0.76	1.14	10.3	135
	01574	0124-02T14AWG-U0BK8-06	2	19 X 0.373	0.76	1.52	18.5	285
	01575	0124-03T14AWG-U0BK8-06	3	19 X 0.373	0.76	1.52	19.7	370
	01576	0124-04T14AWG-U0BK8-06	4	19 X 0.373	0.76	2.03	22.5	515
	01577	0124-06T14AWG-U0BK8-06	6	19 X 0.373	0.76	2.03	27.4	715
	01578	0124-08T14AWG-U0BK8-06	8	19 X 0.373	0.76	2.03	29.0	885
	01579	0124-12T14AWG-U0BK8-06	12	19 X 0.373	0.76	2.03	34.5	1245
	01580	0124-16T14AWG-U0BK8-06	16	19 X 0.373	0.76	2.03	39.2	1605
	01581	0124-20T14AWG-U0BK8-06	20	19 X 0.373	0.76	2.03	43.2	1945

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS (TYPE TC) XLPE INSULATED MULTI PAIR / MULTI TRIAD OVERALL SHIELDED

Temperature range - 40°C to + 90°C
Specifications : UL1277, ICEA S-82-552



- Application :** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.
- Conductor** : Tinned copper to ASTM B33, stranded to class-B/ class-C of ASTM B8.
- Insulation** : Flame retardant XLPE to ICEA S-82-552. UL rated VW-1 conductors.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Overall Shielding** : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.
- Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Note: Special jacket material (CPE) can be supplied on demand.

**INSTRUMENTATION / PROCESS CONTROL CABLES
TRAY CABLE 600 VOLTS (TYPE TC)
XLPE INSULATED MULTI PAIR / MULTI TRIAD
OVERALL SHIELDED**

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	02489	0224-01P18AWG-U0BK8-06	1	7 X 0.386	0.64	1.14	7.8	65
	02490	0224-02P18AWG-U0BK8-06	2	7 X 0.386	0.64	1.14	11.9	115
	02491	0224-03P18AWG-U0BK8-06	3	7 X 0.386	0.64	1.14	12.9	140
	02492	0224-04P18AWG-U0BK8-06	4	7 X 0.386	0.64	1.52	14.7	195
	02493	0224-06P18AWG-U0BK8-06	6	7 X 0.386	0.64	1.52	16.9	255
	02494	0224-08P18AWG-U0BK8-06	8	7 X 0.386	0.64	1.52	17.9	305
	02495	0224-12P18AWG-U0BK8-06	12	7 X 0.386	0.64	2.03	22.1	470
	02496	0224-16P18AWG-U0BK8-06	16	7 X 0.386	0.64	2.03	24.8	585
	02497	0224-20P18AWG-U0BK8-06	20	7 X 0.386	0.64	2.03	27.2	695
	02498	0224-24P18AWG-U0BK8-06	24	7 X 0.386	0.64	2.03	29.3	805
	02499	0224-32P18AWG-U0BK8-06	32	7 X 0.386	0.64	2.03	33.2	1020
	02500	0224-36P18AWG-U0BK8-06	36	7 X 0.386	0.64	2.03	34.9	1125
	02501	0224-40P18AWG-U0BK8-06	40	7 X 0.386	0.64	2.03	36.6	1230
	02502	0224-50P18AWG-U0BK8-06	50	7 X 0.386	0.64	2.03	40.3	1490

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	02503	0224-01P16AWG-U0BK8-06	1	7 X 0.488	0.64	1.14	8.4	85
	02504	0224-02P16AWG-U0BK8-06	2	7 X 0.488	0.64	1.14	13.0	140
	02505	0224-03P16AWG-U0BK8-06	3	7 X 0.488	0.64	1.14	14.1	180
	02506	0224-04P16AWG-U0BK8-06	4	7 X 0.488	0.64	1.52	16.0	245
	02507	0224-06P16AWG-U0BK8-06	6	7 X 0.488	0.64	1.52	18.5	330
	02508	0224-08P16AWG-U0BK8-06	8	7 X 0.488	0.64	1.52	19.5	400
	02509	0224-12P16AWG-U0BK8-06	12	7 X 0.488	0.64	2.03	24.2	610
	02510	0224-16P16AWG-U0BK8-06	16	7 X 0.488	0.64	2.03	27.2	765
	02511	0224-20P16AWG-U0BK8-06	20	7 X 0.488	0.64	2.03	23.9	920
	02512	0224-24P16AWG-U0BK8-06	24	7 X 0.488	0.64	2.03	32.3	1070
	02513	0224-32P16AWG-U0BK8-06	32	7 X 0.488	0.64	2.03	36.6	1370
	02514	0224-36P16AWG-U0BK8-06	36	7 X 0.488	0.64	2.03	38.5	1515
	02515	0224-40P16AWG-U0BK8-06	40	7 X 0.488	0.64	2.03	40.4	1660

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
14	02516	0224-01P14AWG-U0BK8-06	1	19 X 0.373	0.76	1.14	9.7	115
	02517	0224-02P14AWG-U0BK8-06	2	19 X 0.373	0.76	1.52	16.0	220
	02518	0224-03P14AWG-U0BK8-06	3	19 X 0.373	0.76	1.52	17.4	280
	02519	0224-04P14AWG-U0BK8-06	4	19 X 0.373	0.76	1.52	18.8	345
	02520	0224-06P14AWG-U0BK8-06	6	19 X 0.373	0.76	2.03	22.9	515
	02521	0224-08P14AWG-U0BK8-06	8	19 X 0.373	0.76	2.03	24.1	630
	02522	0224-12P14AWG-U0BK8-06	12	19 X 0.373	0.76	2.03	28.5	870
	02523	0224-16P14AWG-U0BK8-06	16	19 X 0.373	0.76	2.03	32.2	1105
	02524	0224-20P14AWG-U0BK8-06	20	19 X 0.373	0.76	2.03	35.5	1340
	02525	0224-24P14AWG-U0BK8-06	24	19 X 0.373	0.76	2.03	38.5	1565

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

XLPE INSULATED MULTI PAIR/MULTI TRIAD

OVERALL SHIELDED

TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	02526	0224-01T18AWG-U0BK8-06	1	7 X 0.386	0.64	1.14	8.2	80
	02527	0224-02T18AWG-U0BK8-06	2	7 X 0.386	0.64	1.52	14.5	170
	02528	0224-03T18AWG-U0BK8-06	3	7 X 0.386	0.64	1.52	15.3	210
	02529	0224-04T18AWG-U0BK8-06	4	7 X 0.386	0.64	1.52	16.7	255
	02530	0224-06T18AWG-U0BK8-06	6	7 X 0.386	0.64	1.52	20.3	350
	02531	0224-08T18AWG-U0BK8-06	8	7 X 0.386	0.64	2.03	22.4	470
	02532	0224-12T18AWG-U0BK8-06	12	7 X 0.386	0.64	2.03	26.5	645
	02533	0224-16T18AWG-U0BK8-06	16	7 X 0.386	0.64	2.03	29.9	815
	02534	0224-20T18AWG-U0BK8-06	20	7 X 0.386	0.64	2.03	32.8	970
	02535	0224-24T18AWG-U0BK8-06	24	7 X 0.386	0.64	2.03	35.5	1130
	02536	0224-32T18AWG-U0BK8-06	32	7 X 0.386	0.64	2.03	40.3	1440
02537	0224-36T18AWG-U0BK8-06	36	7 X 0.386	0.64	2.03	42.5	1600	

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	02538	0224-01T16AWG-U0BK8-06	1	7 X 0.488	0.64	1.14	8.9	100
	02539	0224-02T16AWG-U0BK8-06	2	7 X 0.488	0.64	1.52	15.8	215
	02540	0224-03T16AWG-U0BK8-06	3	7 X 0.488	0.64	1.52	16.7	265
	02541	0224-04T16AWG-U0BK8-06	4	7 X 0.488	0.64	1.52	18.2	325
	02542	0224-06T16AWG-U0BK8-06	6	7 X 0.488	0.64	2.03	23.3	505
	02543	0224-08T16AWG-U0BK8-06	8	7 X 0.488	0.64	2.03	24.6	615
	02544	0224-12T16AWG-U0BK8-06	12	7 X 0.488	0.64	2.03	29.1	850
	02545	0224-16T16AWG-U0BK8-06	16	7 X 0.488	0.64	2.03	32.9	1080
	02546	0224-20T16AWG-U0BK8-06	20	7 X 0.488	0.64	2.03	36.2	1300
	02547	0224-24T16AWG-U0BK8-06	24	7 X 0.488	0.64	2.03	39.2	1520

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
14	02548	0224-01T14AWG-U0BK8-06	1	19 X 0.373	0.76	1.14	10.3	140
	02549	0224-02T14AWG-U0BK8-06	2	19 X 0.373	0.76	1.52	18.5	290
	02550	0224-03T14AWG-U0BK8-06	3	19 X 0.373	0.76	1.52	19.7	375
	02551	0224-04T14AWG-U0BK8-06	4	19 X 0.373	0.76	2.03	22.5	515
	02552	0224-06T14AWG-U0BK8-06	6	19 X 0.373	0.76	2.03	27.4	710
	02553	0224-08T14AWG-U0BK8-06	8	19 X 0.373	0.76	2.03	29.0	875
	02554	0224-12T14AWG-U0BK8-06	12	19 X 0.373	0.76	2.03	34.5	1225
	02555	0224-16T14AWG-U0BK8-06	16	19 X 0.373	0.76	2.03	39.2	1575

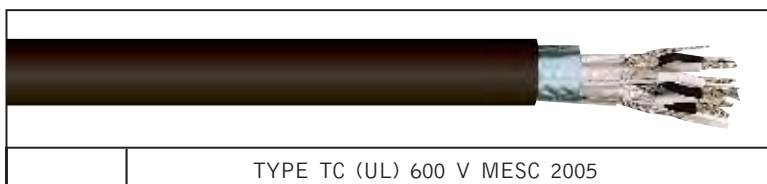
INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

XLPE INSULATED MULTI PAIR / MULTI TRIAD

INDIVIDUAL & OVERALL SHIELDED

Temperature range - 40°C to + 90°C
Specifications : UL1277, ICEA S-82-552



- Application :** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.
- Conductor** : Tinned copper to ASTM B33, stranded to class-B/ class-C of ASTM B8.
 - Insulation** : Flame retardant XLPE to ICEA S-82-552. UL rated VW-1 conductors.
 - Pair Colour Code** : White and black with pair number on white conductor.
 - Triple Colour Code** : White, black and red with triple number on white conductor.
 - Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
 - Individual and Overall Shielding** : Each pair / triple is shielded with aluminum polyester tape and a tinned copper drain wire, for maximum electrostatic noise and crosstalk rejection. All pair/ triple shields are electrically isolated from each other. Individually shielded pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.
 - Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

Note: Special jacket material (CPE) can be supplied on demand.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

XLPE INSULATED MULTI PAIR / MULTI TRIAD

INDIVIDUAL & OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	04145	0424-02P18AWG-U0BK8-06	2	7 X 0.386	0.64	1.14	12.4	130
	04146	0424-03P18AWG-U0BK8-06	3	7 X 0.386	0.64	1.14	13.5	165
	04147	0424-04P18AWG-U0BK8-06	4	7 X 0.386	0.64	1.52	15.3	225
	04148	0424-06P18AWG-U0BK8-06	6	7 X 0.386	0.64	1.52	17.7	300
	04149	0424-08P18AWG-U0BK8-06	8	7 X 0.386	0.64	1.52	18.7	365
	04150	0424-12P18AWG-U0BK8-06	12	7 X 0.386	0.64	2.03	23.1	560
	04151	0424-16P18AWG-U0BK8-06	16	7 X 0.386	0.64	2.03	26.0	705
	04152	0424-20P18AWG-U0BK8-06	20	7 X 0.386	0.64	2.03	28.5	845
	04153	0424-24P18AWG-U0BK8-06	24	7 X 0.386	0.64	2.03	30.8	980
	04154	0424-32P18AWG-U0BK8-06	32	7 X 0.386	0.64	2.03	34.9	1250
	04155	0424-36P18AWG-U0BK8-06	36	7 X 0.386	0.64	2.03	36.7	1385
	04156	0424-40P18AWG-U0BK8-06	40	7 X 0.386	0.64	2.03	38.5	1520
04157	0424-50P18AWG-U0BK8-06	50	7 X 0.386	0.64	2.03	42.5	1845	

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	04158	0424-02P16AWG-U0BK8-06	2	7 X 0.488	0.64	1.14	13.5	165
	04159	0424-03P16AWG-U0BK8-06	3	7 X 0.488	0.64	1.52	15.5	235
	04160	0424-04P16AWG-U0BK8-06	4	7 X 0.488	0.64	1.52	16.7	290
	04161	0424-06P16AWG-U0BK8-06	6	7 X 0.488	0.64	1.52	19.3	390
	04162	0424-08P16AWG-U0BK8-06	8	7 X 0.488	0.64	1.52	20.4	480
	04163	0424-12P16AWG-U0BK8-06	12	7 X 0.488	0.64	2.03	25.2	730
	04164	0424-16P16AWG-U0BK8-06	16	7 X 0.488	0.64	2.03	30.3	980
	04165	0424-20P16AWG-U0BK8-06	20	7 X 0.488	0.64	2.03	31.2	1120
	04166	0424-24P16AWG-U0BK8-06	24	7 X 0.488	0.64	2.03	33.8	1305
	04167	0424-32P16AWG-U0BK8-06	32	7 X 0.488	0.64	2.03	38.3	1680
	04168	0424-36P16AWG-U0BK8-06	36	7 X 0.488	0.64	2.03	40.3	1865
	04169	0424-40P16AWG-U0BK8-06	40	7 X 0.488	0.64	2.03	42.3	2045

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
14	04170	0424-02P14AWG-U0BK8-06	2	19 X 0.373	0.76	1.52	16.6	255
	04171	0424-03P14AWG-U0BK8-06	3	19 X 0.373	0.76	1.52	18.1	330
	04172	0424-04P14AWG-U0BK8-06	4	19 X 0.373	0.76	1.52	19.5	405
	04173	0424-06P14AWG-U0BK8-06	6	19 X 0.373	0.76	2.03	23.8	605
	04174	0424-08P14AWG-U0BK8-06	8	19 X 0.373	0.76	2.03	25.1	745
	04175	0424-12P14AWG-U0BK8-06	12	19 X 0.373	0.76	2.03	29.7	1045
	04176	0424-16P14AWG-U0BK8-06	16	19 X 0.373	0.76	2.03	33.6	1335
	04177	0424-20P14AWG-U0BK8-06	20	19 X 0.373	0.76	2.03	37.0	1625
	04178	0424-24P14AWG-U0BK8-06	24	19 X 0.373	0.76	2.03	40.1	1910

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS (TYPE TC) XLPE INSULATED MULTI PAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

TRIPLES

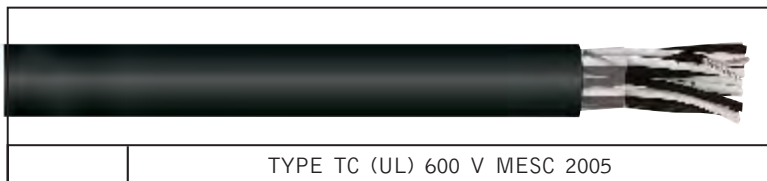
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
18	04179	0424-02T18AWG-U0BK8-06	2	7 X 0.386	0.64	1.52	15.1	190
	04180	0424-03T18AWG-U0BK8-06	3	7 X 0.386	0.64	1.52	16.0	235
	04181	0424-04T18AWG-U0BK8-06	4	7 X 0.386	0.64	1.52	17.4	285
	04182	0424-06T18AWG-U0BK8-06	6	7 X 0.386	0.64	2.03	22.2	445
	04183	0424-08T18AWG-U0BK8-06	8	7 X 0.386	0.64	2.03	23.4	535
	04184	0424-12T18AWG-U0BK8-06	12	7 X 0.386	0.64	2.03	27.7	740
	04185	0424-16T18AWG-U0BK8-06	16	7 X 0.386	0.64	2.03	31.2	930
	04186	0424-20T18AWG-U0BK8-06	20	7 X 0.386	0.64	2.03	34.4	1125
	04187	0424-24T18AWG-U0BK8-06	24	7 X 0.386	0.64	2.03	37.2	1305
	04188	0424-32T18AWG-U0BK8-06	32	7 X 0.386	0.64	2.03	42.3	1680

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
16	04189	0424-02T16AWG-U0BK8-06	2	7 X 0.488	0.64	1.52	16.4	235
	04190	0424-03T16AWG-U0BK8-06	3	7 X 0.488	0.64	1.52	17.4	300
	04191	0424-04T16AWG-U0BK8-06	4	7 X 0.488	0.64	1.52	18.9	370
	04192	0424-06T16AWG-U0BK8-06	6	7 X 0.488	0.64	2.03	24.2	570
	04193	0424-08T16AWG-U0BK8-06	8	7 X 0.488	0.64	2.03	25.6	700
	04194	0424-12T16AWG-U0BK8-06	12	7 X 0.488	0.64	2.03	30.3	975
	04195	0424-16T16AWG-U0BK8-06	16	7 X 0.488	0.64	2.03	34.2	1240
	04196	0424-20T16AWG-U0BK8-06	20	7 X 0.488	0.64	2.03	37.8	1510
	04197	0424-24T16AWG-U0BK8-06	24	7 X 0.488	0.64	2.03	40.6	1765

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
14	04198	0424-02T14AWG-U0BK8-06	2	19 X 0.373	0.76	1.52	19.1	325
	04199	0424-03T14AWG-U0BK8-06	3	19 X 0.373	0.76	1.52	20.3	420
	04200	0424-04T14AWG-U0BK8-06	4	19 X 0.373	0.76	2.03	23.2	575
	04201	0424-06T14AWG-U0BK8-06	6	19 X 0.373	0.76	2.03	28.4	805
	04202	0424-08T14AWG-U0BK8-06	8	19 X 0.373	0.76	2.03	30.0	1000
	04203	0424-12T14AWG-U0BK8-06	12	19 X 0.373	0.76	2.03	35.7	1410
	04204	0424-16T14AWG-U0BK8-06	16	19 X 0.373	0.76	2.03	40.5	1810

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS (TYPE TC) PVC INSULATED MULTI PAIR / MULTI TRIAD UNSHIELDED

Temperature range - 40°C to + 90°C
Specifications : UL1277, ICEA S-82-552



- Application** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location.
- Conductor** : Plain copper to ASTM B3, stranded to Class B / Class C of ASTM B8.
- Insulation** : Flame retardant PVC rated 90°C as per UL 1581. UL rated VW-1 conductors.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Assembly** : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is covered with a polyester tape if required.
- Jacket** : Extruded black PVC as per UL1277 oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES
TRAY CABLE 600 VOLTS (TYPE TC)
PVC INSULATED MULTI PAIR / MULTI TRIAD
UNSHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01582	0111-01P18AWG-U0BK8-06	1	7 X 0.386	0.76	1.14	8.3	75
	01583	0111-02P18AWG-U0BK8-06	2	7 X 0.386	0.76	1.14	12.8	130
	01584	0111-03P18AWG-U0BK8-06	3	7 X 0.386	0.76	1.14	13.9	170
	01585	0111-04P18AWG-U0BK8-06	4	7 X 0.386	0.76	1.52	15.7	230
	01586	0111-06P18AWG-U0BK8-06	6	7 X 0.386	0.76	1.52	18.2	310
	01587	0111-08P18AWG-U0BK8-06	8	7 X 0.386	0.76	1.52	19.2	380
	01588	0111-12P18AWG-U0BK8-06	12	7 X 0.386	0.76	2.03	23.8	585
	01589	0111-16P18AWG-U0BK8-06	16	7 X 0.386	0.76	2.03	26.7	735
	01590	0111-20P18AWG-U0BK8-06	20	7 X 0.386	0.76	2.03	29.3	880
	01591	0111-24P18AWG-U0BK8-06	24	7 X 0.386	0.76	2.03	31.7	1025
	01592	0111-32P18AWG-U0BK8-06	32	7 X 0.386	0.76	2.03	35.9	1310
	01593	0111-36P18AWG-U0BK8-06	36	7 X 0.386	0.76	2.03	37.8	1450
	01594	0111-40P18AWG-U0BK8-06	40	7 X 0.386	0.76	2.03	39.6	1590
	01595	0111-48P18AWG-U0BK8-06	48	7 X 0.386	0.76	2.03	42.9	1865

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01596	0111-01P16AWG-U0BK8-06	1	7 X 0.488	0.76	1.14	8.9	90
	01597	0111-02P16AWG-U0BK8-06	2	7 X 0.488	0.76	1.52	14.6	185
	01598	0111-03P16AWG-U0BK8-06	3	7 X 0.488	0.76	1.52	15.8	235
	01599	0111-04P16AWG-U0BK8-06	4	7 X 0.488	0.76	1.52	17.0	285
	01600	0111-06P16AWG-U0BK8-06	6	7 X 0.488	0.76	1.52	19.8	390
	01601	0111-08P16AWG-U0BK8-06	8	7 X 0.488	0.76	1.52	20.9	485
	01602	0111-12P16AWG-U0BK8-06	12	7 X 0.488	0.76	2.03	25.8	740
	01603	0111-16P16AWG-U0BK8-06	16	7 X 0.488	0.76	2.03	29.1	940
	01604	0111-20P16AWG-U0BK8-06	20	7 X 0.488	0.76	2.03	32.0	1135
	01605	0111-24P16AWG-U0BK8-06	24	7 X 0.488	0.76	2.03	34.6	1325
	01606	0111-32P16AWG-U0BK8-06	32	7 X 0.488	0.76	2.03	39.7	1705
	01607	0111-36P16AWG-U0BK8-06	36	7 X 0.488	0.76	2.03	41.4	1890
	01608	0111-40P16AWG-U0BK8-06	40	7 X 0.488	0.76	2.03	43.4	2080

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01609	0111-01P14AWG-U0BK8-06	1	19X0.373	1.14	1.14	11.2	135
	01610	0111-02P14AWG-U0BK8-06	2	19X0.373	1.14	1.52	18.7	280
	01611	0111-03P14AWG-U0BK8-06	3	19X0.373	1.14	1.52	20.4	365
	01612	0111-04P14AWG-U0BK8-06	4	19X0.373	1.14	2.03	23.1	505
	01613	0111-06P14AWG-U0BK8-06	6	19X0.373	1.14	2.03	26.9	690
	01614	0111-08P14AWG-U0BK8-06	8	19X0.373	1.14	2.03	28.4	850
	01615	0111-12P14AWG-U0BK8-06	12	19X0.373	1.14	2.03	33.8	1195
	01616	0111-16P14AWG-U0BK8-06	16	19X0.373	1.14	2.03	38.3	1530
	01617	0111-20P14AWG-U0BK8-06	20	19X0.373	1.14	2.03	42.3	1865

INSTRUMENTATION / PROCESS CONTROL CABLES
TRAY CABLE 600 VOLTS (TYPE TC)
PVC INSULATED MULTI PAIR / MULTI TRIAD
UNSHIELDED

TRIPLES

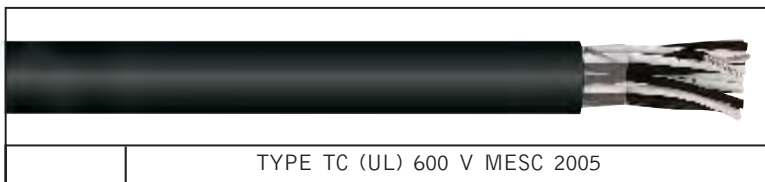
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	01618	0111-01T18AWG-U0BK8-06	1	7 X0.386	0.76	1.14	8.8	95
	01619	0111-02T18AWG-U0BK8-06	2	7 X0.386	0.76	1.52	15.5	200
	01620	0111-03T18AWG-U0BK8-06	3	7 X 0.386	0.76	1.52	16.5	255
	01621	0111-04T18AWG-U0BK8-06	4	7 X 0.386	0.76	1.52	17.9	310
	01622	0111-06T18AWG-U0BK8-06	6	7 X 0.386	0.76	2.03	22.9	485
	01623	0111-08T18AWG-U0BK8-06	8	7 X 0.386	0.76	2.03	24.1	585
	01624	0111-12T18AWG-U0BK8-06	12	7 X 0.386	0.76	2.03	28.5	810
	01625	0111-16T18AWG-U0BK8-06	16	7 X 0.386	0.76	2.03	32.3	1035
	01626	0111-20T18AWG-U0BK8-06	20	7 X 0.386	0.76	2.03	35.5	1245
	01627	0111-24T18AWG-U0BK8-06	24	7 X 0.386	0.76	2.03	38.5	1460
	01628	0111-32T18AWG-U0BK8-06	32	7 X 0.386	0.76	2.03	43.7	1870

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	01629	0111-01T16AWG-U0BK8-06	1	7 X 0.488	0.76	1.14	9.4	110
	01630	0111-02T16AWG-U0BK8-06	2	7 X 0.488	0.76	1.52	16.8	245
	01631	0111-03T16AWG-U0BK8-06	3	7 X 0.488	0.76	1.52	17.9	315
	01632	0111-04T16AWG-U0BK8-06	4	7 X 0.488	0.76	1.52	19.5	390
	01633	0111-06T16AWG-U0BK8-06	6	7 X 0.488	0.76	2.03	24.9	605
	01634	0111-08T16AWG-U0BK8-06	8	7 X 0.488	0.76	2.03	26.3	745
	01635	0111-12T16AWG-U0BK8-06	12	7 X 0.488	0.76	2.03	31.1	1035
	01636	0111-16T16AWG-U0BK8-06	16	7 X 0.488	0.76	2.03	35.3	1335
	01637	0111-20T16AWG-U0BK8-06	20	7 X 0.488	0.76	2.03	38.9	1620
	01638	0111-24T16AWG-U0BK8-06	24	7 X 0.488	0.76	2.03	42.2	1905

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal Jacket Thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	01639	0111-01T14AWG-U0BK8-06	1	19X0.373	1.14	1.14	11.9	175
	01640	0111-02T14AWG-U0BK8-06	2	19X0.373	1.14	2.03	22.8	430
	01641	0111-03T14AWG-U0BK8-06	3	19X0.373	1.14	2.03	24.2	550
	01642	0111-04T14AWG-U0BK8-06	4	19X0.373	1.14	2.03	26.4	680
	01643	0111-06T14AWG-U0BK8-06	6	19X0.373	1.14	2.03	32.5	965
	01644	0111-08T14AWG-U0BK8-06	8	19X0.373	1.14	2.03	34.4	1200
	01645	0111-12T14AWG-U0BK8-06	12	19X0.373	1.14	2.03	41.1	1705

**INSTRUMENTATION / PROCESS CONTROL CABLES
TRAY CABLE 600 VOLTS (TYPE TC)
PVC INSULATED MULTI PAIR / MULTI TRIAD
OVERALL SHIELDED CABLES**

Temperature range - 40°C to + 90°C
Specifications : UL1277 & ICEA S-82-552



- Application** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location
- Conductor** : Plain copper to ASTM B3, stranded to Class B / Class C of ASTM B8 .
- Insulation** : Flame retardant PVC rated 90°C as per UL 1581. UL rated VW -1 conductors.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Overall Shielding** : Twisted pairs / triples are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.
- Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

PVC INSULATED MULTI PAIR / MULTI TRIAD

OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	02556	0211-01P18AWG-U0BK8-06	1	7 X 0.386	0.76	1.14	8.3	80
	02557	0211-02P18AWG-U0BK8-06	2	7 X 0.386	0.76	1.14	12.8	135
	02558	0211-03P18AWG-U0BK8-06	3	7 X 0.386	0.76	1.14	13.9	170
	02559	0211-04P18AWG-U0BK8-06	4	7 X 0.386	0.76	1.52	15.7	230
	02560	0211-06P18AWG-U0BK8-06	6	7 X 0.386	0.76	1.52	18.2	310
	02561	0211-08P18AWG-U0BK8-06	8	7 X 0.386	0.76	1.52	19.2	375
	02562	0211-12P18AWG-U0BK8-06	12	7 X 0.386	0.76	2.03	23.8	575
	02563	0211-16P18AWG-U0BK8-06	16	7 X 0.386	0.76	2.03	26.7	720
	02564	0211-20P18AWG-U0BK8-06	20	7 X 0.386	0.76	2.03	29.3	865
	02565	0211-24P18AWG-U0BK8-06	24	7 X 0.386	0.76	2.03	31.7	1005
	02566	0211-32P18AWG-U0BK8-06	32	7 X 0.386	0.76	2.03	35.9	1285
	02567	0211-36P18AWG-U0BK8-06	36	7 X 0.386	0.76	2.03	37.8	1420
	02568	0211-40P18AWG-U0BK8-06	40	7 X 0.386	0.76	2.03	39.6	1555
	02569	0211-48P18AWG-U0BK8-06	48	7 X 0.386	0.76	2.03	42.9	1825

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	02570	0211-01P16AWG-U0BK8-06	1	7 X 0.488	0.76	1.14	8.9	90
	02571	0211-02P16AWG-U0BK8-06	2	7 X 0.488	0.76	1.52	14.6	190
	02572	0211-03P16AWG-U0BK8-06	3	7 X 0.488	0.76	1.52	15.8	240
	02573	0211-04P16AWG-U0BK8-06	4	7 X 0.488	0.76	1.52	17.0	290
	02574	0211-06P16AWG-U0BK8-06	6	7 X 0.488	0.76	1.52	19.8	390
	02575	0211-08P16AWG-U0BK8-06	8	7 X 0.488	0.76	1.52	20.9	480
	02576	0211-12P16AWG-U0BK8-06	12	7 X 0.488	0.76	2.03	25.8	730
	02577	0211-16P16AWG-U0BK8-06	16	7 X 0.488	0.76	2.03	29.1	920
	02578	0211-20P16AWG-U0BK8-06	20	7 X 0.488	0.76	2.03	32.0	1110
	02579	0211-24P16AWG-U0BK8-06	24	7 X 0.488	0.76	2.03	34.6	1300
	02580	0211-32P16AWG-U0BK8-06	32	7 X 0.488	0.76	2.03	39.3	1665
	02581	0211-36P16AWG-U0BK8-06	36	7 X 0.488	0.76	2.03	41.4	1850
	02582	0211-40P16AWG-U0BK8-06	40	7 X 0.488	0.76	2.03	43.4	2030

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	02583	0211-01P14AWG-U0BK8-06	1	19X0.373	1.14	1.14	11.2	145
	02584	0211-02P14AWG-U0BK8-06	2	19X0.373	1.14	1.52	18.7	290
	02585	0211-03P14AWG-U0BK8-06	3	19X0.373	1.14	1.52	19.7	340
	02586	0211-04P14AWG-U0BK8-06	4	19X0.373	1.14	2.03	23.1	510
	02587	0211-06P14AWG-U0BK8-06	6	19X0.373	1.14	2.03	26.9	690
	02588	0211-08P14AWG-U0BK8-06	8	19X0.373	1.14	2.03	28.4	850
	02589	0211-12P14AWG-U0BK8-06	12	19X0.373	1.14	2.03	33.8	1190
	02590	0211-16P14AWG-U0BK8-06	16	19X0.373	1.14	2.03	38.3	1520
	02591	0211-20P14AWG-U0BK8-06	20	19X0.373	1.14	2.03	42.3	1845

INSTRUMENTATION / PROCESS CONTROL CABLES
TRAY CABLE 600 VOLTS (TYPE TC)
PVC INSULATED MULTI PAIR / MULTI TRIAD
OVER-ALL SHIELDED

TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	02592	0211-01T18AWG-U0BK8-06	1	7 X 0.386	0.76	1.14	8.8	95
	02593	0211-02T18AWG-U0BK8-06	2	7 X 0.386	0.76	1.52	15.5	200
	02594	0211-03T18AWG-U0BK8-06	3	7 X 0.386	0.76	1.52	16.5	255
	02595	0211-04T18AWG-U0BK8-06	4	7 X 0.386	0.76	1.52	17.9	305
	02596	0211-06T18AWG-U0BK8-06	6	7 X 0.386	0.76	2.03	22.9	480
	02597	0211-08T18AWG-U0BK8-06	8	7 X 0.386	0.76	2.03	24.1	575
	02598	0211-12T18AWG-U0BK8-06	12	7 X 0.386	0.76	2.03	28.5	795
	02599	0211-16T18AWG-U0BK8-06	16	7 X 0.386	0.76	2.03	32.3	1015
	02600	0211-20T18AWG-U0BK8-06	20	7 X 0.386	0.76	2.03	35.5	1220
02601	0211-24T18AWG-U0BK8-06	24	7 X 0.386	0.76	2.03	38.5	1430	

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	02602	0211-01T16AWG-U0BK8-06	1	7 X 0.488	0.76	1.14	9.4	115
	02603	0211-02T16AWG-U0BK8-06	2	7 X 0.488	0.76	1.52	16.8	245
	02604	0211-03T16AWG-U0BK8-06	3	7 X 0.488	0.76	1.52	17.9	315
	02605	0211-04T16AWG-U0BK8-06	4	7 X 0.488	0.76	1.52	19.5	390
	02606	0211-06T16AWG-U0BK8-06	6	7 X 0.488	0.76	2.03	24.9	600
	02607	0211-08T16AWG-U0BK8-06	8	7 X 0.488	0.76	2.03	26.3	735
	02608	0211-12T16AWG-U0BK8-06	12	7 X 0.488	0.76	2.03	31.1	1020
	02609	0211-16T16AWG-U0BK8-06	16	7 X 0.488	0.76	2.03	35.3	1310
	02610	0211-20T16AWG-U0BK8-06	20	7 X 0.488	0.76	2.03	38.9	1585
	02611	0211-24T16AWG-U0BK8-06	24	7 X 0.488	0.76	2.03	42.2	1860

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	02612	0211-01T14AWG-U0BK8-06	1	19X0.373	1.14	1.14	11.9	185
	02613	0211-02T14AWG-U0BK8-06	2	19X0.373	1.14	2.03	22.8	435
	02614	0211-03T14AWG-U0BK8-06	3	19X0.373	1.14	2.03	24.2	555
	02615	0211-04T14AWG-U0BK8-06	4	19X0.373	1.14	2.03	26.4	685
	02616	0211-06T14AWG-U0BK8-06	6	19X0.373	1.14	2.03	32.5	965
	02617	0211-08T14AWG-U0BK8-06	8	19X0.373	1.14	2.03	34.4	1195
	02618	0211-12T14AWG-U0BK8-06	12	19X0.373	1.14	2.03	41.1	1690

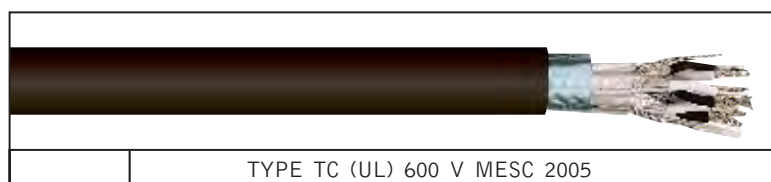
INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

PVC INSULATED MULTI PAIR / MULTI TRIAD

INDIVIDUAL & OVERALL SHIELDED CABLES

Temperature range - 40°C to + 90°C
Specifications : UL1277 & ICEA S-82-552



- Application** : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location
- Conductor** : Plain copper to ASTM B3, stranded to Class B / Class C of ASTM B8 .
- Insulation** : Flame retardant PVC rated 90°C as per UL 1581. UL rated VW -1 conductors.
- Pair Colour Code** : White and black with pair number on white conductor.
- Triple Colour Code** : White, black and red with triple number on white conductor.
- Pairs/Triples Twisting** : All pairs / triples are twisted to counter electromagnetic noise.
- Individual & Overall Shielding** : Each pair is shielded with aluminium polyester tape & a tinned copper drain wire, for maximum electrostatic noise and crosstalk rejection. All pair shields are electrically isolated from each other. Individually shielded pairs are cabled with non hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
- Jacket** : Extruded black PVC as per UL1277, oil and sunlight resistant, passes flame test as per IEEE - 383 (70000 BTU). The jacket is impervious to vapour and moisture penetration.

INSTRUMENTATION / PROCESS CONTROL CABLES

TRAY CABLE 600 VOLTS (TYPE TC)

PVC INSULATED MULTI PAIR / MULTI TRIAD

INDIVIDUAL & OVERALL SHIELDED

PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	04205	0411-02P18AWG-U0BK8-06	2	7 X 0.386	0.76	1.14	13.3	150
	04206	0411-03P18AWG-U0BK8-06	3	7 X 0.386	0.76	1.52	15.2	220
	04207	0411-04P18AWG-U0BK8-06	4	7 X 0.386	0.76	1.52	16.4	265
	04208	0411-06P18AWG-U0BK8-06	6	7 X 0.386	0.76	1.52	19.0	355
	04209	0411-08P18AWG-U0BK8-06	8	7 X 0.386	0.76	1.52	20.1	435
	04210	0411-12P18AWG-U0BK8-06	12	7 X 0.386	0.76	2.03	24.8	665
	04211	0411-16P18AWG-U0BK8-06	16	7 X 0.386	0.76	2.03	27.9	840
	04212	0411-20P18AWG-U0BK8-06	20	7 X 0.386	0.76	2.03	30.7	1010
	04213	0411-24P18AWG-U0BK8-06	24	7 X 0.386	0.76	2.03	33.2	1180
	04214	0411-32P18AWG-U0BK8-06	32	7 X 0.386	0.76	2.03	37.6	1515
	04215	0411-36P18AWG-U0BK8-06	36	7 X 0.386	0.76	2.03	39.6	1680

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	04216	0411-02P16AWG-U0BK8-06	2	7 X 0.488	0.76	1.14	14.4	185
	04217	0411-03P16AWG-U0BK8-06	3	7 X 0.488	0.76	1.52	16.4	270
	04218	0411-04P16AWG-U0BK8-06	4	7 X 0.488	0.76	1.52	17.7	330
	04219	0411-06P16AWG-U0BK8-06	6	7 X 0.488	0.76	1.52	20.6	450
	04220	0411-08P16AWG-U0BK8-06	8	7 X 0.488	0.76	2.03	22.8	610
	04221	0411-12P16AWG-U0BK8-06	12	7 X 0.488	0.76	2.03	26.9	850
	04222	0411-16P16AWG-U0BK8-06	16	7 X 0.488	0.76	2.03	30.3	1085
	04223	0411-20P16AWG-U0BK8-06	20	7 X 0.488	0.76	2.03	33.4	1315
	04224	0411-24P16AWG-U0BK8-06	24	7 X 0.488	0.76	2.03	36.1	1540
	04225	0411-32P16AWG-U0BK8-06	32	7 X 0.488	0.76	2.03	41.0	1985
	04226	0411-36P16AWG-U0BK8-06	36	7 X 0.488	0.76	2.03	43.2	2205

SIZE (AWG)	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	04227	0411-02P14AWG-U0BK8-06	2	19X0.373	1.14	1.52	19.3	320
	04228	0411-03P14AWG-U0BK8-06	3	19X0.373	1.14	2.03	22.1	470
	04229	0411-04P14AWG-U0BK8-06	4	19X0.373	1.14	2.03	23.9	575
	04230	0411-06P14AWG-U0BK8-06	6	19X0.373	1.14	2.03	27.8	785
	04231	0411-08P14AWG-U0BK8-06	8	19X0.373	1.14	2.03	29.4	975
	04232	0411-12P14AWG-U0BK8-06	12	19X0.373	1.14	2.03	35.0	1375
	04233	0411-16P14AWG-U0BK8-06	16	19X0.373	1.14	2.03	39.7	1765
	04234	0411-20P14AWG-U0BK8-06	20	19X0.373	1.14	2.79	45.3	2305

INSTRUMENTATION / PROCESS CONTROL CABLES TRAY CABLE 600 VOLTS (TYPE TC) PVC INSULATED MULTI PAIR / MULTI TRIAD INDIVIDUAL & OVERALL SHIELDED

TRIPLES

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
18	04235	0411-02T18AWG-U0BK8-06	2	7 X 0.386	0.76	1.52	16.1	220
	04236	0411-03T18AWG-U0BK8-06	3	7 X 0.386	0.76	1.52	17.1	275
	04237	0411-04T18AWG-U0BK8-06	4	7 X 0.386	0.76	1.52	18.6	340
	04238	0411-06T18AWG-U0BK8-06	6	7 X 0.386	0.76	2.03	23.8	525
	04239	0411-08T18AWG-U0BK8-06	8	7 X 0.386	0.76	2.03	25.1	640
	04240	0411-12T18AWG-U0BK8-06	12	7 X 0.386	0.76	2.03	29.8	895
	04241	0411-16T18AWG-U0BK8-06	16	7 X 0.386	0.76	2.03	33.6	1130
	04242	0411-20T18AWG-U0BK8-06	20	7 X 0.386	0.76	2.03	37.1	1370
04243	0411-24T18AWG-U0BK8-06	24	7 X 0.386	0.76	2.03	40.2	1605	

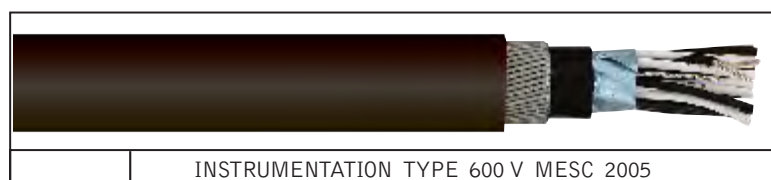
SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
16	04244	0411-02T16AWG-U0BK8-06	2	7 X 0.488	0.76	1.52	17.4	270
	04245	0411-03T16AWG-U0BK8-06	3	7 X 0.488	0.76	1.52	18.5	345
	04246	0411-04T16AWG-U0BK8-06	4	7 X 0.488	0.76	1.52	20.2	430
	04247	0411-06T16AWG-U0BK8-06	6	7 X 0.488	0.76	2.03	25.8	665
	04248	0411-08T16AWG-U0BK8-06	8	7 X 0.488	0.76	2.03	27.3	820
	04249	0411-12T16AWG-U0BK8-06	12	7 X 0.488	0.76	2.03	32.3	1145
	04250	0411-16T16AWG-U0BK8-06	16	7 X 0.488	0.76	2.03	36.6	1465
	04251	0411-20T16AWG-U0BK8-06	20	7 X 0.488	0.76	2.03	40.4	1785

SIZE (AWG)	Order No.	MESC Code	Triples	Strands X diameter No. X mm	Insulation thickness mm	Nominal jacket thickness mm	Approx. O.D. mm	Approx. weight Kg/Km
14	04252	0411-02T14AWG-U0BK8-06	2	19X0.373	1.14	2.03	23.4	468
	04253	0411-03T14AWG-U0BK8-06	3	19X0.373	1.14	2.03	24.9	604
	04254	0411-04T14AWG-U0BK8-06	4	19X0.373	1.14	2.03	27.2	751
	04255	0411-06T14AWG-U0BK8-06	6	19X0.373	1.14	2.03	33.4	1055
	04256	0411-08T14AWG-U0BK8-06	8	19X0.373	1.14	2.03	35.4	1319
	04257	0411-12T14AWG-U0BK8-06	12	19X0.373	1.14	2.03	42.3	1873

INSTRUMENTATION/PROCESS CONTROL CABLES 600 VOLTS, WIRE ARMoured, XLPE INSULATED MULTI PAIR / TRIAD OVERALL SHIELDED CABLES

Temperature range : - 40°C to + 90°C

Specifications : NEMA WC-55/ICEA S-82-552



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location. The wire armour provides longitudinal strength for use as a messenger cable or for support in vertical drops (NEC SECTION 300-19) and provides the protection against the mechanical damage.

Construction

Conductor : Tinned Copper to ASTM B-33 & Stranded to class B/C of ASTM B-8.

Insulation : Flame retardant XLPE to ICEA S - 82-552.

Pair colour code : White & Black with pair number on white conductor.

TRIAD colour code : White, Black & Red with TRIAD number on white conductor.

Pairs/Triad Twisting : All pairs / triads are twisted to counter electromagnetic noise.

Overall Shielding : Twisted pairs/triads are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminum polyester tape and a tinned copper drain wire.

Inner Jacket : Extruded black, flame retardant PVC rated 90 C to ICEA S-82-552

Wire Armour : A serving of round galvanised steel wires is applied with 90% minimum coverage.

Outer Jacket : Extruded black PVC to ICEA S-82-552 is oil and sun light resistant and passes flame test as per IEEE-383 (70000 BTU).

Note : On customer request "Metallic Sheath" of lead can be provided under the Armour accordance with NEMA WC-55 / ICEA S-95-658

INSTRUMENTATION/PROCESS CONTROL CABLES 600 VOLTS, WIRE ARMoured, XLPE INSULATED MULTI PAIR / TRIAD OVERALL SHIELDED

OVERALL SHIELDED PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	02661	0224-01P18AWG-W0BK8-06	1	7 x 0.386	0.64	1.14	7.8	0.9	9.6	1.27	12.3	291
	02662	0224-02P18AWG-W0BK8-06	2	7 x 0.386	0.64	1.14	11.3	0.9	13.1	1.65	16.6	454
	02663	0224-04P18AWG-W0BK8-06	4	7 x 0.386	0.64	1.14	12.8	1.25	15.3	1.65	18.8	653
	02664	0224-06P18AWG-W0BK8-06	6	7 x 0.386	0.64	1.52	16.9	1.25	19.4	1.65	22.9	895
	02665	0224-08P18AWG-W0BK8-06	8	7 x 0.386	0.64	1.52	17.8	1.6	21.0	1.65	24.5	1124
	02666	0224-10P18AWG-W0BK8-06	10	7 x 0.386	0.64	1.52	19.5	1.6	22.7	1.65	26.2	1249
	02667	0224-12P18AWG-W0BK8-06	12	7 x 0.386	0.64	2.03	22.1	1.6	25.3	1.65	28.8	1420
	02668	0224-16P18AWG-W0BK8-06	16	7 x 0.386	0.64	2.03	24.8	2.0	28.8	1.65	32.3	1914
	02669	0224-20P18AWG-W0BK8-06	20	7 x 0.386	0.64	2.03	27.2	2.0	31.2	1.65	34.7	2160
	02670	0224-24P18AWG-W0BK8-06	24	7 x 0.386	0.64	2.03	29.4	2.0	33.4	1.65	36.9	2375
02671	0224-36P18AWG-W0BK8-06	36	7 x 0.386	0.64	2.03	34.9	2.0	38.9	2.03	43.2	3051	

SIZE (AWG)	Order No.	MESC Code	Pairs No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	02672	0224-01P16AWG-W0BK8-06	1	7 x 0.488	0.64	1.14	8.4	0.9	10.2	1.27	12.9	323
	02673	0224-02P16AWG-W0BK8-06	2	7 x 0.488	0.64	1.14	12.3	0.9	14.1	1.65	17.6	509
	02674	0224-04P16AWG-W0BK8-06	4	7 x 0.488	0.64	1.52	14.8	1.25	17.3	1.65	20.8	805
	02675	0224-06P16AWG-W0BK8-06	6	7 x 0.488	0.64	1.52	18.5	1.6	21.7	1.65	25.2	1170
	02676	0224-08P16AWG-W0BK8-06	8	7 x 0.488	0.64	1.52	19.5	1.6	22.7	1.65	26.2	1288
	02677	0224-10P16AWG-W0BK8-06	10	7 x 0.488	0.64	2.03	22.5	1.6	25.7	1.65	29.2	1546
	02678	0224-12P16AWG-W0BK8-06	12	7 x 0.488	0.64	2.03	24.2	2.0	28.2	1.65	31.7	1909
	02679	0224-16P16AWG-W0BK8-06	16	7 x 0.488	0.64	2.03	27.2	2.0	31.2	1.65	34.7	2234
	02680	0224-20P16AWG-W0BK8-06	20	7 x 0.488	0.64	2.03	29.9	2.0	33.9	1.65	37.4	2527
	02681	0224-24P16AWG-W0BK8-06	24	7 x 0.488	0.64	2.03	32.3	2.0	36.3	1.65	39.8	2788

OVERALL SHIELDED TRIADS

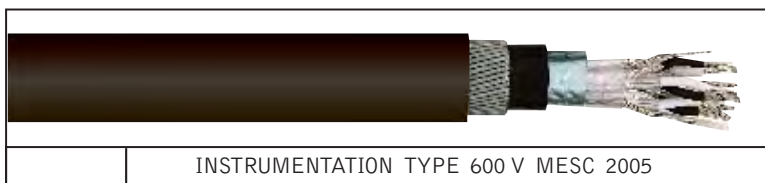
SIZE (AWG)	Order No.	MESC Code	Triads No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	02682	0224-01T18AWG-W0BK8-06	1	7 x 0.386	0.64	1.14	8.2	0.9	10.0	1.27	12.7	319
	02683	0224-02T18AWG-W0BK8-06	2	7 x 0.386	0.64	1.52	14.4	1.25	16.9	1.65	20.4	721
	02684	0224-04T18AWG-W0BK8-06	4	7 x 0.386	0.64	1.52	16.1	1.25	18.6	1.65	22.1	561
	02685	0224-06T18AWG-W0BK8-06	6	7 x 0.386	0.64	1.52	20.2	1.6	23.4	1.65	26.9	1256
	02686	0224-08T18AWG-W0BK8-06	8	7 x 0.386	0.64	2.03	22.5	1.6	25.7	1.65	29.2	1487
	02687	0224-10T18AWG-W0BK8-06	10	7 x 0.386	0.64	2.03	24.6	2.0	28.6	1.65	32.1	1886
	02688	0224-12T18AWG-W0BK8-06	12	7 x 0.386	0.64	2.03	26.5	2.0	30.5	1.65	34.0	2072
	02689	0224-16T18AWG-W0BK8-06	16	7 x 0.386	0.64	2.03	29.9	2.0	33.9	1.65	37.4	2411
	02690	0224-20T18AWG-W0BK8-06	20	7 x 0.386	0.64	2.03	32.8	2.0	36.8	1.65	40.4	2716

SIZE (AWG)	Order No.	MESC Code	Triads No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	02691	0224-01T16AWG-W0BK8-06	1	7 x 0.488	0.64	1.14	8.8	0.9	10.6	1.27	13.4	356
	02692	0224-02T16AWG-W0BK8-06	2	7 x 0.488	0.64	1.52	15.7	1.25	18.2	1.65	21.4	808
	02693	0224-04T16AWG-W0BK8-06	4	7 x 0.488	0.64	1.52	17.6	1.6	20.8	1.65	24.3	1122
	02694	0224-06T16AWG-W0BK8-06	6	7 x 0.488	0.64	2.03	23.3	2.0	27.3	1.65	30.8	1764
	02695	0224-08T16AWG-W0BK8-06	8	7 x 0.488	0.64	2.03	24.6	2.0	28.6	1.65	32.1	1942
	02696	0224-10T16AWG-W0BK8-06	10	7 x 0.488	0.64	2.03	26.9	2.0	30.9	1.65	34.4	2195
	02697	0224-12T16AWG-W0BK8-06	12	7 x 0.488	0.64	2.03	29.1	2.0	33.1	1.65	36.6	2417
	02698	0224-16T16AWG-W0BK8-06	16	7 x 0.488	0.64	2.03	32.9	2.0	36.9	1.65	40.4	2825

INSTRUMENTATION/PROCESS CONTROL CABLES 600 VOLTS, WIRE ARMoured, XLPE INSULATED MULTI PAIR / TRIAD INDIVIDUAL & OVERALL SHIELDED CABLES

Temperature range : - 40°C to + 90°C

Specifications : NEMA WC-55/ICEA S-82-552



Application : Can be used in cable tray, conduit or direct burial application for instrumentation / process control, in dry or wet location. The wire armour provides longitudinal strength for use as a messenger cable or for support in vertical drops (NEC SECTION 300-19) and provides the protection against the mechanical damage.

Construction

- Conductor** : Tinned Copper to ASTM B-33 & Stranded to class B/C of ASTM B-8.
- Insulation** : Flame retardant XLPE to ICEA S - 82-552.
- Pair colour code** : White & Black with pair number on white conductor.
- Triads colour code** : White, Black & Red with Triads number on white conductor.
- Pairs/Triad Twisting** : All pairs / Triads are twisted to counter electromagnetic noise.
- Individual & Overall Shielding** : Each pair / Triads is shielded with aluminium polyester tape and a tinned copper drain wire, for maximum electrostatic noise and crosstalk rejection. All pair/Triads shields are electrically isolated from each other.
: Individually shielded pairs / Triads are cabled with non-hygroscopic fillers if necessary and the entire assembly is shielded with aluminium polyester tape and a tinned copper drain wire.
- Inner Jacket** : Extruded black, flame retardant PVC to ICEA S-82-552
- Wire Armour** : A serving of round galvanised steel wires is applied with 90% minimum coverage.
- Outer Jacket** : Extruded black PVC to ICEA S-82-552 is oil and sunlight resistant and passes flame test as per IEEE-383 (70000 BTU).

Note : On customer request "Metallic Sheath" of lead can be provided under the Armour in accordance with NEMA WC-70 / ICEA S-95-658.

INSTRUMENTATION/PROCESS CONTROL CABLES 600 VOLTS, WIRE ARMoured, XLPE INSULATED MULTI PAIR / TRIAD INDIVIDUAL & OVERALL SHIELDED

INDIVIDUAL & OVERALL SHIELDED PAIRS

SIZE (AWG)	Order No.	MESC Code	Pairs No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	04296	0424-02P18AWG-W0BK8-06	2	7 x 0.386	0.64	1.14	11.8	0.9	13.6	1.65	17.1	487
	04297	0424-04P18AWG-W0BK8-06	4	7 x 0.386	0.64	1.52	14.2	1.25	16.7	1.65	20.2	758
	04298	0424-06P18AWG-W0BK8-06	6	7 x 0.386	0.64	1.52	17.7	1.6	20.9	1.65	24.4	1101
	04299	0424-08P18AWG-W0BK8-06	8	7 x 0.386	0.64	1.52	18.7	1.6	21.9	1.65	25.4	1211
	04300	0424-10P18AWG-W0BK8-06	10	7 x 0.386	0.64	1.52	20.4	1.6	23.6	1.65	27.1	1370
	04301	0424-12P18AWG-W0BK8-06	12	7 x 0.386	0.64	2.03	23.1	2.0	27.1	1.65	30.6	1820
	04302	0424-16P18AWG-W0BK8-06	16	7 x 0.386	0.64	2.03	26.0	2.0	30.0	1.65	33.5	2103
	04303	0424-20P18AWG-W0BK8-06	20	7 x 0.386	0.64	2.03	28.5	2.0	32.5	1.65	36.0	2379
	04304	0424-24P18AWG-W0BK8-06	24	7 x 0.386	0.64	2.03	30.8	2.0	34.8	1.65	38.3	2625
	04305	0424-32P18AWG-W0BK8-06	32	7 x 0.386	0.64	2.03	34.9	2.0	38.9	2.03	43.1	3182

SIZE (AWG)	Order No.	MESC Code	Pairs No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	04306	0424-02P16AWG-W0BK8-06	2	7 x 0.488	0.64	1.14	12.8	1.25	15.3	1.65	18.8	651
	04307	0424-04P16AWG-W0BK8-06	4	7 x 0.488	0.64	1.52	15.4	1.25	17.9	1.65	21.4	866
	04308	0424-06P16AWG-W0BK8-06	6	7 x 0.488	0.64	1.52	19.3	1.6	22.5	1.65	26.0	1261
	04309	0424-08P16AWG-W0BK8-06	8	7 x 0.488	0.64	2.03	20.3	1.6	23.5	1.65	27.1	1400
	04310	0424-10P16AWG-W0BK8-06	10	7 x 0.488	0.64	2.03	23.4	2.0	27.4	1.65	30.9	1900
	04311	0424-12P16AWG-W0BK8-06	12	7 x 0.488	0.64	2.03	25.2	2.0	29.2	1.65	32.7	2102
	04312	0424-16P16AWG-W0BK8-06	16	7 x 0.488	0.64	2.03	28.4	2.0	32.4	1.65	35.9	2471
	04313	0424-20P16AWG-W0BK8-06	20	7 x 0.488	0.64	2.03	31.2	2.0	35.2	1.65	38.7	2807
	04314	0424-24P16AWG-W0BK8-06	24	7 x 0.488	0.64	2.03	33.8	2.0	37.8	1.65	41.3	3136

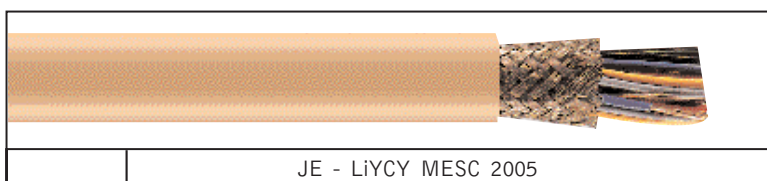
INDIVIDUAL & OVERALL SHIELDED TRIADS

SIZE (AWG)	Order No.	MESC Code	Triads No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
18	04315	0424-02T18AWG-W0BK8-06	2	7 x 0.386	0.64	1.52	15.0	1.25	17.5	1.65	21.0	755
	04316	0424-04T18AWG-W0BK8-06	4	7 x 0.386	0.64	1.52	16.8	1.25	19.3	1.65	22.8	922
	04317	0424-06T18AWG-W0BK8-06	6	7 x 0.386	0.64	2.03	22.2	1.6	25.4	1.65	28.9	1455
	04318	0424-08T18AWG-W0BK8-06	8	7 x 0.386	0.64	2.03	23.4	2.0	27.4	1.65	30.9	1798
	04319	0424-10T18AWG-W0BK8-06	10	7 x 0.386	0.64	2.03	25.7	2.0	29.7	1.65	33.2	2031
	04320	0424-12T18AWG-W0BK8-06	12	7 x 0.386	0.64	2.03	27.7	2.0	31.7	1.65	35.2	2234
	04321	0424-16T18AWG-W0BK8-06	16	7 x 0.386	0.64	2.03	31.3	2.0	35.3	1.65	38.8	2604
	04322	0424-20T18AWG-W0BK8-06	20	7 x 0.386	0.64	2.03	34.4	2.0	38.4	2.03	42.7	3041

SIZE (AWG)	Order No.	MESC Code	Triads No.	Strands X Dia. No. X mm	Ins. thick. mm	Inner Jacket Thick. mm	Inner Jacket O.D. mm	Armour Wire Dia mm	Armour Wire O.D. mm	Outer Jacket Thick. mm	Outer Jacket O.D. mm	Approx Weight Kg/Km
16	04323	0424-02T16AWG-W0BK8-06	2	7 x 0.488	0.64	1.52	16.3	1.25	18.8	1.65	22.3	849
	04324	0424-04T16AWG-W0BK8-06	4	7 x 0.488	0.64	1.52	18.3	1.6	21.5	1.65	25.0	1208
	04325	0424-06T16AWG-W0BK8-06	6	7 x 0.488	0.64	2.03	24.2	2.0	28.2	1.65	31.7	1895
	04326	0424-08T16AWG-W0BK8-06	8	7 x 0.488	0.64	2.03	25.6	2.0	29.6	1.65	33.1	2095
	04327	0424-10T16AWG-W0BK8-06	10	7 x 0.488	0.64	2.03	28.0	2.0	32.0	1.65	35.5	2344
	04328	0424-12T16AWG-W0BK8-06	12	7 x 0.488	0.64	2.03	30.3	2.0	34.3	1.65	37.8	2588
	04329	0424-16T16AWG-W0BK8-06	16	7 x 0.488	0.64	2.03	34.3	2.0	38.3	2.03	42.5	3141

JE - LiYCY INDUSTRIAL ELECTRONIC CABLE

VDE - 0815



Application : Suitable for measurement and control in the field of electronics. This cable is also used for data transmission in computers. Suitable for fixed installation in dry and humid premises.

Special application : Suitable for maxi-termi point connections.

Construction		Technical Data	
Conductor	: Stranded plain copper as per class 2 of VDE - 0295.	Temperature range	
Insulation	: PVC insulation type YI-3 to VDE 0207.	Stationary	: - 30°C to +70°C.
Pair	: Cores twisted into pairs. Two (2) pairs shall be a quad. Pairs colour coded as per VDE- 0815. First pair : Blue + Red Second pair : Grey + Yellow Third pair : Green + Brown Fourth pair : White + Black	Flexing	: - 5°C to +50°C.
Unit	: Four pairs bundled into a unit and wrapped with an open helix of numbered polyester tape.	Peak working voltage	: 225 Volts.
Assembly	: Units cabled with non-hygroscopic fillers if necessary, covered with a polyester binder tape and braided with plain copper wires. *	Minimum bending radius	: 5 X cable diameter.
Outer sheath	: PVC type YM-1 as per VDE - 0207 coloured grey (blue for Intrinsically safe circuits). Outer sheath passes flame retardant test as per IEC-332 - 1.	Conductor resistance at 20°C.	: 39.2 ohm/Km.
		Insulation resistance	: 100 MOhm-Km.
		Mutual Capacitance	: 100 nF/Km (cables up to 4 pairs the value can exceed by 20%).
		Capacitance unbalance maximum	: 200 pF/100m.
		R.M.S. test voltage	: 500V core/core. : 2000V core/screen.
		Attenuation	: 1.1 dB/Km at 800 Hz. : 3.0 dB/Km at 10 KHz.

Size sq. mm	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx. O. D. mm	Approx. Weight Kg / Km
0.5	15001	0511-02P00050-U1GY8-02	2	7 X 0.3	0.3	1.0	7.2	90
	15002	0511-04P00050-U1GY8-02	4	7 X 0.3	0.3	1.0	9.9	145
	15003	0511-08P00050-U1GY8-02	8	7 X 0.3	0.3	1.2	13.6	245
	15004	0511-12P00050-U1GY8-02	12	7 X 0.3	0.3	1.2	15.1	320
	15005	0511-16P00050-U1GY8-02	16	7 X 0.3	0.3	1.2	16.9	400
	15006	0511-20P00050-U1GY8-02	20	7 X 0.3	0.3	1.4	18.8	485
	15007	0511-24P00050-U1GY8-02	24	7 X 0.3	0.3	1.4	20.2	565
	15008	0511-32P00050-U1GY8-02	32	7 X 0.3	0.3	1.4	22.7	700
	15009	0511-36P00050-U1GY8-02	36	7 X 0.3	0.3	1.6	24.3	800
	15010	0511-40P00050-U1GY8-02	40	7 X 0.3	0.3	1.6	25.3	865
	15011	0511-48P00050-U1GY8-02	48	7 X 0.3	0.3	1.6	27.3	1005

* Braid with Tinned copper can be provided. In that case, last five characters of MESC code shall read U2GY8.

Packing: Wooden Drums of 500/ 1000 Metres.

JE-Y(St)Y INDUSTRIAL ELECTRONIC CABLE VDE - 0815



Application : Suitable for measurement and control in the fields of electronics. This cable is also used for data transmission in computers. Suitable for fixed installation in dry and humid premises.

Special Applications : Suitable for MAXI-TERMI point connections.

Construction		Technical Data	
Conductor	: Solid plain copper.	Temperature range	
Insulation	: PVC insulation type YI-3 to VDE 0207.	Stationary	: - 30°C to +70°C.
Pair	: Cores twisted into pairs. Two(2) pairs shall be a quad. Pairs colour code as per VDE - 0815. First Pair : Blue + Red. Second Pair : Grey + Yellow. Third Pair : Green + Brown. Fourth Pair : White + Black.	Flexing	: - 5°C to +50°C.
Units	: Four pairs bundled into a unit and wrapped with an open helix of numbered polyester tape.	Peak working voltage	: 225 Volts.
Assembly	: Units cabled with non-hygroscopic fillers if necessary, shielded with aluminum polyester tape and stranded tinned copper drain wire for electrostatic noise rejection.	Minimum bending radius	: 7.5 X cable diameter.
Outer Sheath	: PVC type YM-1 as per VDE 0207 coloured grey (blue for Intrinsically safe circuits). Outer sheath passes flame retardant test as per IEC-332-1.	Conductor resistance at 20°C	: 36.6 ohm/Km.
		Insulation resistance	: 100 MOhm - Km.
		Mutual Capacitance	: 100 nF/Km (cables up to 4 pairs the value can exceed by 20%).
		Capacitance unbalance maximum	: 200pF/100m.
		R.M.S. test voltage	: 500 V core/core. 2000 V core/screen.
		Attenuation	: 1.1dB/Km at 800Hz. 3.0dB/Km at 10 KHz.

Size sq. mm	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx. O. D. mm	Approx. Weight Kg / Km
0.5	12001	0261-02P00050-U0GY8-02	2	1 X 0.8	0.3	1.0	5.9	60
	12002	0261-04P00050-U0GY8-02	4	1 X 0.8	0.3	1.0	8.4	95
	12003	0261-08P00050-U0GY8-02	8	1 X 0.8	0.3	1.0	11.4	160
	12004	0261-12P00050-U0GY8-02	12	1 X 0.8	0.3	1.2	13.3	230
	12005	0261-16P00050-U0GY8-02	16	1 X 0.8	0.3	1.2	15.0	295
	12006	0261-20P00050-U0GY8-02	20	1 X 0.8	0.3	1.2	16.4	355
	12007	0261-24P00050-U0GY8-02	24	1 X 0.8	0.3	1.6	18.6	455
	12008	0261-32P00050-U0GY8-02	32	1 X 0.8	0.3	1.6	20.9	560
	12009	0261-36P00050-U0GY8-02	36	1 X 0.8	0.3	1.6	22.0	640
	12010	0261-40P00050-U0GY8-02	40	1 X 0.8	0.3	1.6	23.0	675
	12011	0261-48P00050-U0GY8-02	48	1 X 0.8	0.3	1.6	24.9	845
	12012	0261-80P00050-U0GY8-02	80	1 X 0.8	0.3	1.8	31.5	1200

Packing: Wooden Drums of 500/1000 Metres.

JE - LiY(St)Y INDUSTRIAL ELECTRONIC CABLE ADAPTED TO VDE - 0815



Application : Suitable for measurement and control in the field of electronics. This cable is also used for data transmission in computers. Suitable for fixed installation in dry and humid premises.

Special Applications : Suitable for MAXI-TERMI point connections.

Construction		Technical Data	
Conductor	: Stranded plain copper.	Temperature range	
Insulation	: PVC insulation type YI- 3 to VDE 0207.	Stationary	: - 30°C to +70°C.
Pair	: Cores twisted into pairs. Two(2)pairs shall be a quad. Pairs colour coded as per VDE-0815. First Pair : Blue + Red. Second Pair : Grey + Yellow. Third Pair : Green + Brown. Fourth Pair : White + Black.	Flexing	: - 50°C to +50°C.
Unit	: Four pairs bundled into a unit and wrapped with an open helix of numbered polyester tape.	Peak working voltage	: 225 Volts.
Assembly	: Units cabled with non-hygroscopic fillers if necessary, shielded with aluminum polyester tape and stranded tinned copper drain wire for electrostatic noise rejection.	Minimum bending radius	: 7.5 X cable diameter.
Outer Sheath	: PVC type YM-1 as per VDE 0207 coloured grey (blue for Intrinsically safe circuits). Outer sheath passes flame retardant test as per IEC-332-1.	Conductor resistance at 20°C	: 39.2 Ohm/Km.
		Insulation resistance	: 100 MOhm - Km.
		Mutual Capacitance	: 100 nF/Km (cables upto 4 pairs the value can exceed by 20%).
		Capacitance unbalance maximum	: 200pF/100m.
		R.M.S. test voltage	: 500 V core/core. : 2000 V core/screen.
		Attenuation	: 1.1dB/Km at 800 Hz. : 3.0 dB/Km at 10 KHz.

Size sq. mm	Order No.	MES C Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx. O. D. mm	Approx. Weight Kg / Km
0.5	12013	0211-02P00050-U0GY8-02	2	7 X 0.3	0.3	1.0	6.2	60
	12014	0211-04P00050-U0GY8-02	4	7 X 0.3	0.3	1.0	8.8	105
	12015	0211-08P00050-U0GY8-02	8	7 X 0.3	0.3	1.2	12.5	190
	12016	0211-12P00050-U0GY8-02	12	7 X 0.3	0.3	1.2	14.0	255
	12017	0211-16P00050-U0GY8-02	16	7 X 0.3	0.3	1.2	15.8	325
	12018	0211-20P00050-U0GY8-02	20	7 X 0.3	0.3	1.2	17.3	390
	12019	0211-24P00050-U0GY8-02	24	7 X 0.3	0.3	1.6	19.6	495
	12020	0211-32P00050-U0GY8-02	32	7 X 0.3	0.3	1.6	22.1	630
	12021	0211-36P00050-U0GY8-02	36	7 X 0.3	0.3	1.6	23.2	695
	12022	0211-40P00050-U0GY8-02	40	7 X 0.3	0.3	1.6	24.3	760
	12023	0211-48P00050-U0GY8-02	48	7 X 0.3	0.3	1.6	26.2	885

Packing: Wooden Drums of 500/ 1000 Metres.

RE-2YCYPiMF INSTRUMENTATION CABLE ADAPTED TO VDE - 0815



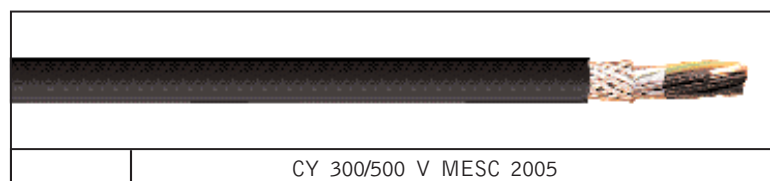
Application: Suitable for data processing and process control. The individual shielding of pairs results in high crosstalk attenuation. Over-all copper braid protects screened pairs from outer electrostatic noise. Low level of attenuation and low mutual capacitance enable long transmission distances. Suitable for fixed installation in dry and wet locations.

Construction		Technical Data	
Conductor	: Stranded plain copper as per class 2 of VDE-0295.	Temperature range	
Insulation	: Polyethylene.	Stationary	: - 30°C to +70°C.
Pair shield	: Black and white cores twisted into pairs. Each pair shielded with aluminum polyester tape and a tinned copper drain wire, provided with a numbered tape for pair identification.	Flexing	: - 5°C to +50°C.
Assembly	: Shielded pairs/units cabled with non-hygroscopic fillers if necessary, covered with a polyester binder tape and braided with plain copper wires. All individual shielded pairs are electrically isolated from each other.	Peak working voltage	: 300 Volts.
Outer Sheath	: PVC type YM-1 as per VDE 0207 coloured grey (blue for Intrinsically safe circuits). Outer sheath passes flame retardant test as per IEC-332-1. Sheath wall thickness as per VDE- 0815.	Minimum bending radius	: 7.5 X cable diameter.
		Conductor resistance at 20°C	: 39.2 ohm/Km.
		Insulation resistance	: 5 GOhm - Km.
		Mutual Capacitance	: 85 nF/Km.
		Inductance	: 0.75 mH/Km.
		R.M.S. test voltage	: 1000 V core/core. 1000 V core/screen.

Size sq. mm	Order No.	MESC Code	Pairs	Strands X diameter No. X mm	Insulation thickness mm	Sheath thickness mm	Approx. O. D. mm	Approx. Weight Kg / Km
0.5	18001	0812-02P00050-U1GY8-00	2	7 X 0.3	0.3	1.0	9.8	120
	18002	0812-04P00050-U1GY8-00	4	7 X 0.3	0.3	1.0	10.5	160
	18003	0812-08P00050-U1GY8-00	8	7 X 0.3	0.3	1.2	14.4	280
	18004	0812-12P00050-U1GY8-00	12	7 X 0.3	0.3	1.2	16.1	370
	18005	0812-16P00050-U1GY8-00	16	7 X 0.3	0.3	1.6	18.9	490
	18006	0812-20P00050-U1GY8-00	20	7 X 0.3	0.3	1.6	20.6	585
	18007	0812-24P00050-U1GY8-00	24	7 X 0.3	0.3	1.6	22.1	675
	18008	0812-32P00050-U1GY8-00	32	7 X 0.3	0.3	1.6	24.8	850
	18009	0812-36P00050-U1GY8-00	36	7 X 0.3	0.3	1.6	26.1	935
	18010	0812-40P00050-U1GY8-00	40	7 X 0.3	0.3	1.6	27.2	1020
	18011	0812-48P00050-U1GY8-00	48	7 X 0.3	0.3	1.8	29.8	1215

Packing : Wooden Drums of 500/1000 Metres.

CY DATA TRANSMISSION CABLE ADAPTED TO VDE 0250



Application : These cables are used as signal cables in the field of electronics, computer systems and various control systems such as tool making and machine industries. Copper wire screen provides interference-free signal transmission. The absence of inner sheath has the advantage of lower cable diameter and reduced bending radius.

Construction		Technical Data	
Conductor	: Plain copper bunched as per class 5 of VDE-0295.	Specification	: Generally based on VDE-0250.
Insulation	: PVC type YI-2 as per VDE 0207. Black cores with white numbers and one green / yellow core. The number of cores indicated in the tables includes the green / yellow core.	Temperature range Stationary	: - 30°C to +80°C.
		Flexing	: - 5°C to +80°C.
Assembly	: Cores twisted in layers, wrapped with polyester binder and braided with plain copper wires with 85% coverage.	Working voltage	: 300/500 Volts.
Outer sheath	: Black * coloured Oil resistant PVC type YM-2 as per VDE 0207. Flame retardant to IEC-332-1.	Minimum bending radius	: 15 X cable diameter for fixed installation.
		Conductor resistance	: as per class-5 of VDE-0295.
		Insulation resistance	: 20 MΩm - Km.
		Mutual Capacitance	: core/core 150 nF/Km. : core/screen 280 nF/Km.
		Inductance	: 0.7 mH/Km.
		Test voltage	: 2000 V.for 5 Minutes.

* Grey coloured sheath can be supplied on request.

CY DATA TRANSMISSION CABLE

Size sq. mm	Order No.	MESC Code	No. of cores	Strands X diameter no.x mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
0.5	15012	0581-03C 00050-U1BK8-05	3	16 X 0.2	0.6	0.8	7.3	75
	15013	0581-04C 00050-U1BK8-05	4	16 X 0.2	0.6	0.8	7.8	90
	15014	0581-05C 00050-U1BK8-05	5	16 X 0.2	0.6	1.0	8.9	115
	15015	0581-06C 00050-U1BK8-05	6	16 X 0.2	0.6	1.0	9.5	135
	15016	0581-07C 00050-U1BK8-05	7	16 X 0.2	0.6	1.0	9.5	135
	15017	0581-08C 00050-U1BK8-05	8	16 X 0.2	0.6	1.2	10.9	165
	15018	0581-10C 00050-U1BK8-05	10	16 X 0.2	0.6	1.2	12.1	195
	15019	0581-12C 00050-U1BK8-05	12	16 X 0.2	0.6	1.2	12.7	230
	15020	0581-14C 00050-U1BK8-05	14	16 X 0.2	0.6	1.2	13.2	255
	15021	0581-16C 00050-U1BK8-05	16	16 X 0.2	0.6	1.2	13.8	280
	15022	0581-19C 00050-U1BK8-05	19	16 X 0.2	0.6	1.2	14.5	315
	15023	0581-24C 00050-U1BK8-05	24	16 X 0.2	0.6	1.5	17.3	405
	15024	0581-27C 00050-U1BK8-05	27	16 X 0.2	0.6	1.5	17.6	440
	15025	0581-30C 00050-U1BK8-05	30	16 X 0.2	0.6	1.5	18.2	470
	15026	0581-37C 00050-U1BK8-05	37	16 X 0.2	0.6	1.8	20.0	580
	15027	0581-48C 00050-U1BK8-05	48	16 X 0.2	0.6	1.8	22.8	740
	15028	0581-61C 00050-U1BK8-05	61	16 X 0.2	0.6	2.1	25.2	920

Size sq. mm	Order No.	MESC Code	No. of cores	Strands X diameter no.x mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
0.75	15029	0581-03C 00075-U1BK8-05	3	24 X 0.2	0.6	0.8	7.8	90
	15030	0581-04C 00075-U1BK8-05	4	24 X 0.2	0.6	1.0	8.8	115
	15031	0581-05C 00075-U1BK8-05	5	24 X 0.2	0.6	1.0	9.4	135
	15032	0581-06C 00075-U1BK8-05	6	24 X 0.2	0.6	1.0	10.2	155
	15033	0581-07C 00075-U1BK8-05	7	24 X 0.2	0.6	1.0	10.2	160
	15034	0581-08C 00075-U1BK8-05	8	24 X 0.2	0.6	1.2	11.6	195
	15035	0581-10C 00075-U1BK8-05	10	24 X 0.2	0.6	1.2	12.9	230
	15036	0581-12C 00075-U1BK8-05	12	24 X 0.2	0.6	1.2	13.5	275
	15037	0581-14C 00075-U1BK8-05	14	24 X 0.2	0.6	1.2	14.1	305
	15038	0581-16C 00075-U1BK8-05	16	24 X 0.2	0.6	1.2	14.8	335
	15039	0581-19C 00075-U1BK8-05	19	24 X 0.2	0.6	1.2	15.5	380
	15040	0581-24C 00075-U1BK8-05	24	24 X 0.2	0.6	1.8	19.1	520
	15041	0581-27C 00075-U1BK8-05	27	24 X 0.2	0.6	1.8	19.5	560
	15042	0581-30C 00075-U1BK8-05	30	24 X 0.2	0.6	1.8	20.1	605
	15043	0581-37C 00075-U1BK8-05	37	24 X 0.2	0.6	1.8	21.5	705
	15044	0581-48C 00075-U1BK8-05	48	24 X 0.2	0.6	2.1	24.9	910
	15045	0581-61C 00075-U1BK8-05	61	24 X 0.2	0.6	2.1	27.1	1130

Size sq. mm	Order No.	MESC Code	No. of cores	Strands X diameter no.x mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
1.0	15046	0581-03C 00100-U1BK8-05	3	32 X 0.2	0.6	1.0	8.5	110
	15047	0581-04C 00100-U1BK8-05	4	32 X 0.2	0.6	1.0	9.2	130
	15048	0581-05C 00100-U1BK8-05	5	32 X 0.2	0.6	1.0	9.9	155
	15049	0581-06C 00100-U1BK8-05	6	32 X 0.2	0.6	1.2	11.1	190
	15050	0581-07C 00100-U1BK8-05	7	32 X 0.2	0.6	1.2	11.1	195
	15051	0581-08C 00100-U1BK8-05	8	32 X 0.2	0.6	1.2	12.2	225
	15052	0581-10C 00100-U1BK8-05	10	32 X 0.2	0.6	1.2	13.6	265
	15053	0581-12C 00100-U1BK8-05	12	32 X 0.2	0.6	1.2	14.3	315
	15054	0581-14C 00100-U1BK8-05	14	32 X 0.2	0.6	1.2	14.9	355
	15055	0581-16C 00100-U1BK8-05	16	32 X 0.2	0.6	1.5	16.2	415
	15056	0581-19C 00100-U1BK8-05	19	32 X 0.2	0.6	1.5	17.0	465
	15057	0581-24C 00100-U1BK8-05	24	32 X 0.2	0.6	1.8	20.2	600
	15058	0581-27C 00100-U1BK8-05	27	32 X 0.2	0.6	1.8	20.6	650
	15059	0581-30C 00100-U1BK8-05	30	32 X 0.2	0.6	1.8	21.2	705
	15060	0581-37C 00100-U1BK8-05	37	32 X 0.2	0.6	1.8	22.7	830
	15061	0581-48C 00100-U1BK8-05	48	32 X 0.2	0.6	2.1	26.3	1070
	15062	0581-61C 00100-U1BK8-05	61	32 X 0.2	0.6	2.1	28.7	1325

CY DATA TRANSMISSION CABLE

Size sq. mm	Order No.	MESC Code	No. of cores	Strands X diameter no.x mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
1.5	15063	0581-03C00150-U1BK8-05	3	30 X 0.25	0.6	1.0	9.1	130
	15064	0581-04C00150-U1BK8-05	4	30 X 0.25	0.6	1.0	9.8	155
	15065	0581-05C00150-U1BK8-05	5	30 X 0.25	0.6	1.2	11.1	195
	15066	0581-06C00150-U1BK8-05	6	30 X 0.25	0.6	1.2	11.9	230
	15067	0581-07C00150-U1BK8-05	7	30 X 0.25	0.6	1.2	11.9	240
	15068	0581-08C00150-U1BK8-05	8	30 X 0.25	0.6	1.2	13.2	275
	15069	0581-10C00150-U1BK8-05	10	30 X 0.25	0.6	1.2	14.8	330
	15070	0581-12C00150-U1BK8-05	12	30 X 0.25	0.6	1.2	15.4	390
	15071	0581-14C00150-U1BK8-05	14	30 X 0.25	0.6	1.5	16.7	460
	15072	0581-16C00150-U1BK8-05	16	30 X 0.25	0.6	1.5	17.5	510
	15073	0581-19C00150-U1BK8-05	19	30 X 0.25	0.6	1.8	19.0	605
	15074	0581-24C00150-U1BK8-05	24	30 X 0.25	0.6	1.8	21.8	745
	15075	0581-27C00150-U1BK8-05	27	30 X 0.25	0.6	1.8	22.3	810
	15076	0581-30C00150-U1BK8-05	30	30 X 0.25	0.6	1.8	23.0	880
	15077	0581-37C00150-U1BK8-05	37	30 X 0.25	0.6	2.1	25.3	1080
	15078	0581-48C00150-U1BK8-05	48	30 X 0.25	0.6	2.1	28.8	1380
	15079	0581-61C00150-U1BK8-05	61	30 X 0.25	0.6	2.4	31.7	1720

Size sq. mm	Order No.	MESC Code	No. of cores	Strands X diameter no.x mm	Insulation thickness mm	Sheath thickness mm	Approx. O.D. mm	Approx. Weight Kg/Km
2.5	15080	0581-03C00250-U1BK8-05	3	50 X 0.25	0.7	1.2	11.0	185
	15081	0581-04C00250-U1BK8-05	4	50 X 0.25	0.7	1.2	11.8	230
	15082	0581-05C00250-U1BK8-05	5	50 X 0.25	0.7	1.2	12.9	275
	15083	0581-06C00250-U1BK8-05	6	50 X 0.25	0.7	1.2	13.9	325
	15084	0581-07C00250-U1BK8-05	7	50 X 0.25	0.7	1.2	13.9	345
	15085	0581-08C00250-U1BK8-05	8	50 X 0.25	0.7	1.2	15.5	390
	15086	0581-10C00250-U1BK8-05	10	50 X 0.25	0.7	1.5	18.0	500
	15087	0581-12C00250-U1BK8-05	12	50 X 0.25	0.7	1.8	19.4	615
	15088	0581-14C00250-U1BK8-05	14	50 X 0.25	0.7	1.8	20.2	690
	15089	0581-16C00250-U1BK8-05	16	50 X 0.25	0.7	1.8	21.3	770
	15090	0581-19C00250-U1BK8-05	19	50 X 0.25	0.7	1.8	22.3	880
	15091	0581-24C00250-U1BK8-05	24	50 X 0.25	0.7	2.1	26.4	1125
	15092	0581-27C00250-U1BK8-05	27	50 X 0.25	0.7	2.1	27.0	1225
	15093	0581-30C00250-U1BK8-05	30	50 X 0.25	0.7	2.1	27.8	1335
	15094	0581-37C00250-U1BK8-05	37	50 X 0.25	0.7	2.4	30.7	1665
	15095	0581-48C00250-U1BK8-05	48	50 X 0.25	0.7	2.4	34.8	2090
	15096	0581-61C00250-U1BK8-05	61	50 X 0.25	0.7	2.7	38.3	2610

Packing: Wooden Drums of 500/1000 Metres.

MESCOFIRE FIRE SURVIVAL CABLES

INTRODUCTION

Protection of human life in case of Fire in a public building and the **safety of equipment** and property is of paramount importance. Cables used in vital installations like power plants, continuous operating industries, hospitals, airports, underground railway stations, and crowded places are required to function even under fire conditions for a reasonable length of time to enable safe evacuation of people .

MESCOFIRE cables offer excellent solution to fulfill the stringent safety requirements of electrical installation in public environment.

APPLICATIONS

1. Smoke detection, alarm system, and installation cables in crowded buildings, hospitals, hotels, underground railways etc.
2. Instrumentation, communication and signaling cables in Industrial complexes, offshore platforms and petrochemical plants.

SPECIAL CHARACTERISTICS

The fire performance properties of MESCOFIRE fire resistant cables are listed as follows:

Fire Resistance

Cables intended to survive fire must function even under the influence of a continuous fire.

The fire test as per IEC - 331 is a stringent one. A cable sample of 1200 mm is placed over a burner and connected to a power supply of cable's operating voltage. After a duration of **three hours** the fire and the power are switched off. 12 hours later the power is turned on again.

The cable must be operational during the fire and when the power is turned on again.

When the cables are tested as per the BS-6387 standard, actual conditions of water spray and mechanical shocks are simulated. The cable is subjected to fire with water spray and fire with mechanical shocks and must maintain circuit integrity.

To meet the requirement of fire survival MESCOFIRE cables are provided with a flame barrier mica tape. Mica tape used in MESCOFIRE cables has excellent thermal and electrical properties and it can withstand flame temperatures upto

TEST DESCRIPTION	DURATION	STANDARD
Resistance to fire alone	3 hours at 750°C	IEC-60331
Resistance to fire alone	3 hours at 950 °C	BS-6387 category C
Resistance to fire with water	650°C for 15 minutes then 650 °C with water spray for 15 minutes	BS-6387 category W
Resistance to fire with mechanical shock	950°C for 15 minutes with mechanical shock	BS-6387 category Z

MESCOFIRE cables meet all the above Requirement.

Toxic Gases

Concentration of toxic gases generated by fire depends on the material under combustion, oxygen available, temperature of the fire and ventilation systems. Some toxic gases are undetectable in low concentrations by human senses, hence can not be tasted, seen or smelt. However can be very quickly lethal. MESCOFIRE cables contain **Zero Halogen** materials and achieve complete toxicity benefits.

Specifications Requirement :IEC 754 Part 1 : < 0.5% gas.

MESCOFIRE Typical Value : 0%.

MESCOFIRE[®] FIRE SURVIVAL CABLES

Corrosive Gases

A large financial investment is outlaid in any building, so to protect the building and the equipment is also important.

To exemplify, a cable with 2.9 Kg of PVC insulation can produce 320 liters of Hydrochloric acid. These acids cause weakening of steel reinforcing of concrete. Electronic equipment may also be destroyed. The materials used in MESCOFIRE cables generate no corrosive gases.

Specification Requirement : IEC 60754 Part 2. Ph > 4.3
MESCOFIRE Typical Values 6

Low Smoke

The generation of smoke causes obstruction of exits and safe evacuation of people and fire fighting becomes greatly hampered. The amount of smoke produced in a fire depends primarily on the material type and quantity. A meter of burning cable containing around 0.85 Kg of PVC will produce complete obstruction in a room of 1000 m³ within 5 minutes. MESCOFIRE cables contain Low Smoke materials to overcome this problem.

Specification Requirement : Minimum light transmittance - 60% min. As per IEC 61034 - 2
MESCOFIRE Typical light transmittance - 80 %



3 Hours fire survival test as per IEC-331

HIGHLIGHTS

MESCOFIRE Fire-resistant cables replace MICC cables and have certain advantages over the MIC cables.

1. Fewer and less costly installation accessories required.
2. Easier to install than conventional MICC cables.
3. Preparation & termination time reduced to < 50%.
4. Cheaper than conventional fire resistant cables.
5. Can be made available in longer lengths.

FIRE SURVIVAL CABLES

LOW SMOKE

FLAME RETARDANT

HALOGEN FREE

MULTICORE CONTROL CABLE FOR MEASUREMENT, CONTROL & SIGNALLING



0MESCOFIRE0 FIRE RESISTANT CABLE 300/500 V MES C 2005

- Conductor** : Stranded plain copper wire to IEC 228 Class 2.
Insulation : Flame Barrier Mica tape + Halogen free, Low smoke thermoplastic material.
Assembly : Cores laid in layers, wrapped with plastic binder if necessary.
Screening : Screening with aluminum polyester tape with an overlap for 100% coverage with a tinned copper drain wire.
Sheath : Halogen free, Low Smoke thermoplastic material. Sheath color Red. *

Order No.	MES C CODE	Cores No.	Size sq. mm	Strand X Dia. No. x mm	Approx. O. D. mm	Approx. Weight Kg/km	Mutual Capacitance nF/km	Conductor Resistance Ohm/km	L/r ratio mH/Ω
F2001	0217-02C00100-U0RD8-05	2	1.0	7 X 0.43	8.4	72	100	18.1	25
F2002	0217-03C00100-U0RD8-05	3	1.0	7 X 0.43	9.2	97	100	18.1	25
F2003	0217-04C00100-U0RD8-05	4	1.0	7 X 0.43	10.0	118	100	18.1	25
F2004	0217-05C00100-U0RD8-05	5	1.0	7 X 0.43	11.1	145	100	18.1	25
F2005	0217-07C00100-U0RD8-05	7	1.0	7 X 0.43	12.0	182	100	18.1	25
F2006	0217-09C00100-U0RD8-05	9	1.0	7 X 0.43	14.6	235	100	18.1	25
F2007	0217-10C00100-U0RD8-05	10	1.0	7 X 0.43	15.2	254	100	18.1	25
F2008	0217-12C00100-U0RD8-05	12	1.0	7 X 0.43	15.7	290	100	18.1	25
F2009	0217-15C00100-U0RD8-05	15	1.0	7 X 0.43	17.3	347	100	18.1	25
F2010	0217-16C00100-U0RD8-05	16	1.0	7 X 0.43	17.7	379	100	18.1	25
F2011	0217-19C00100-U0RD8-05	19	1.0	7 X 0.43	18.7	437	100	18.1	25
F2012	0217-02C00150-U0RD8-05	2	1.5	7 X 0.53	9.4	94	105	12.1	25
F2013	0217-03C00150-U0RD8-05	3	1.5	7 X 0.53	9.9	118	105	12.1	25
F2014	0217-04C00150-U0RD8-05	4	1.5	7 X 0.53	10.7	144	105	12.1	25
F2015	0217-05C00150-U0RD8-05	5	1.5	7 X 0.53	11.9	177	105	12.1	25
F2016	0217-07C00150-U0RD8-05	7	1.5	7 X 0.53	12.9	226	105	12.1	25
F2017	0217-09C00150-U0RD8-05	9	1.5	7 X 0.53	15.8	294	105	12.1	25
F2018	0217-10C00150-U0RD8-05	10	1.5	7 X 0.53	16.4	317	105	12.1	25
F2019	0217-12C00150-U0RD8-05	12	1.5	7 X 0.53	17.0	366	105	12.1	25
F2020	0217-15C00150-U0RD8-05	15	1.5	7 X 0.53	19.2	459	105	12.1	25
F2021	0217-16C00150-U0RD8-05	16	1.5	7 X 0.53	19.2	481	105	12.1	25
F2022	0217-19C00150-U0RD8-05	19	1.5	7 X 0.53	20.2	553	105	12.1	25
F2023	0217-02C00250-U0RD8-05	2	2.5	7 X 0.67	11.2	134	115	7.41	40
F2024	0217-03C00250-U0RD8-05	3	2.5	7 X 0.67	11.9	173	115	7.41	40
F2025	0217-04C00250-U0RD8-05	4	2.5	7 X 0.67	12.9	213	115	7.41	40
F2026	0217-05C00250-U0RD8-05	5	2.5	7 X 0.67	14.2	258	115	7.41	40
F2027	0217-07C00250-U0RD8-05	7	2.5	7 X 0.67	15.4	333	115	7.41	40
F2028	0217-09C00250-U0RD8-05	9	2.5	7 X 0.67	18.9	430	115	7.41	40
F2029	0217-10C00250-U0RD8-05	10	2.5	7 X 0.67	20.2	491	115	7.41	40
F2030	0217-12C00250-U0RD8-05	12	2.5	7 X 0.67	20.8	562	115	7.41	40
F2031	0217-15C00250-U0RD8-05	15	2.5	7 X 0.67	23.1	685	115	7.41	40
F2032	0217-16C00250-U0RD8-05	16	2.5	7 X 0.67	23.1	720	115	7.41	40
F2033	0217-19C00250-U0RD8-05	19	2.5	7 X 0.67	24.4	836	115	7.41	40

- Temperature range** : -20°C to + 90°C
Working voltage : 300 / 500 Volts.
Test voltage : 1000 Volts r.m.s. for 1 min.
Colour code : 2 Core : Red & Black.
: 3 Core : Red , Yellow , Blue
: 4 Core : Red , Yellow , Blue & Black
: 5 Core & above : Black with Number Printg
Based on : BS 5308/2

- Fire Resistant Property**
750°C for three hours to IEC 331.
950°C for three hours to BS 6387 Category C.
Complies to BS 6387 Category W & Z.
Flame Retardant to IEC 332-1.
Flame Retardant to IEC 332-3 Cat. A, B & C.
Passes Low Smoke Test as per IEC 1034.
Passes Halogen content Test as per IEC

Note :1. Armoured cables can be supplied on demand. 2. Other insulation or sheath colours available if required.

FIRE SURVIVAL CABLES

LOW SMOKE

FLAME RETARDANT

HALOGEN FREE

MULTIPAIR INSTRUMENTATION, COMMUNICATION ALARM & DATA TRANSMISSION CABLE (OVERALL SCREENED)



0MESCOFIRE0 FIRE RESISTANT CABLE 300/500 V MES C 2005

- Conductor** : Stranded plain copper wire to IEC 228 Class 2.
Insulation : Flame Barrier Mica tape + Halogen free, Low smoke thermoplastic material.
Assembly : Cores twisted into pairs and assembled pairs wrapped with plastic binder if necessary.
Screening : Screening with aluminum polyester tape with an overlap for 100% coverage with a tinned copper drain wire.
Sheath : Halogen free, Low Smoke thermoplastic material. Sheath color Red. *

Order No.	MES C CODE	Pairs No.	Size sq. mm	Strand X Dia. No x mm	Approx. O. D. mm	Approx. Weight Kg/km	Mutual Capacitance nF/km	Conductor Resistance Ohm/km	L/r ratio mH/Ω
F2034	0217-02P00100-U0RD8-05	2	1.0	7 X 0.43	13.0	142	100	18.4	25
F2035	0217-03P00100-U0RD8-05	3	1.0	7 X 0.43	13.2	178	100	18.4	25
F2036	0217-04P00100-U0RD8-05	4	1.0	7 X 0.43	15.0	228	100	18.4	25
F2037	0217-05P00100-U0RD8-05	5	1.0	7 X 0.43	16.5	275	100	18.4	25
F2038	0217-07P00100-U0RD8-05	7	1.0	7 X 0.43	18.9	358	100	18.4	25
F2039	0217-10P00100-U0RD8-05	10	1.0	7 X 0.43	22.5	504	100	18.4	25
F2040	0217-12P00100-U0RD8-05	12	1.0	7 X 0.43	24.3	586	100	18.4	25
F2041	0217-15P00100-U0RD8-05	15	1.0	7 X 0.43	27.2	734	100	18.4	25
F2042	0217-20P00100-U0RD8-05	20	1.0	7 X 0.43	30.8	936	100	18.4	25
F2043	0217-02P00150-U0RD8-05	2	1.5	7 X 0.53	14.0	170	100	12.3	25
F2044	0217-03P00150-U0RD8-05	3	1.5	7 X 0.53	14.2	218	100	12.3	25
F2045	0217-04P00150-U0RD8-05	4	1.5	7 X 0.53	16.2	282	100	12.3	2
F2046	0217-05P00150-U0RD8-05	5	1.5	7 X 0.53	17.8	339	100	12.3	25
F2047	0217-07P00150-U0RD8-05	7	1.5	7 X 0.53	20.5	448	100	12.3	25
F2048	0217-10P00150-U0RD8-05	10	1.5	7 X 0.53	24.4	634	100	12.3	25
F2049	0217-12P00150-U0RD8-05	12	1.5	7 X 0.53	26.4	741	100	12.3	25
F2050	0217-15P00150-U0RD8-05	15	1.5	7 X 0.53	29.5	925	100	12.3	25

- Temperature range** : -20°C to + 90°C
Working voltage : 300 / 500 Volts.
Test voltage : 1000 Volts r.m.s. for 1 min.
Colour code : Black and White with number Print on each core.
Based pm : BS 5308/2

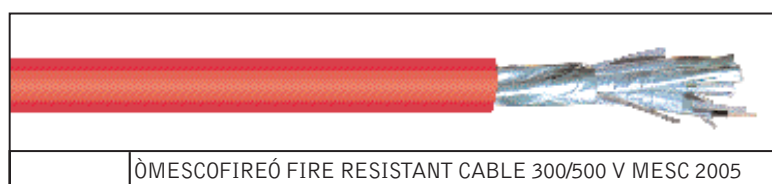
- Fire Resistant Property**
750°C for three hours to IEC 331.
950°C for three hours to BS 6387 Category C.
Complies to BS 6387 Category W & Z.
Flame Retardant to IEC 332-1.
Flame Retardant to IEC 332-3 Cat. A, B & C.
Passes Low Smoke Test as per IEC 1034.
Passes Halogen content Test as per IEC 754-2.

Note :1. Armoured cables can be supplied on demand. 2. Other insulation or sheath colours available if required.

FIRE SURVIVAL CABLES

LOW SMOKE FLAME RETARDANT HALOGEN FREE

MULTIPAIR INSTRUMENTATION, COMMUNICATION ALARM
& DATA TRANSMISSION CABLE (INDIVIDUAL & OVERALL SCREENED)



0MESCOFIRE0 FIRE RESISTANT CABLE 300/500 V MES C 2005

- Conductor** : Stranded plain copper wire to IEC 228 Class 2.
Insulation : Flame Barrier Mica tape + Halogen free, Low smoke thermoplastic material.
Individual & Overall Screened) : Core Twisted into pair, shielded with aluminum mylar tape and tinned copper drain wire. Individual shielded pair assembled and the entire assembly is shielded by aluminum mylar tape and tinned copper drain wire.
Sheath : Halogen free low Smoke thermoplastic material. Sheath colour Red. *

Order No.	MES C CODE	Pairs	Size sq. mm	Strand X No. Dia. No. x mm	Approx. O. D. mm	Approx. Weight Kg/km	Mutual Capacitance nF/km	Conductor Resistance Ohm/km	L/r ratio mH/Ω
F4001	0417-02P00100-U0RD8-05	2	1.0	7 X 0.43	11.7	150	100	18.4	25
F4002	0417-03P00100-U0RD8-05	3	1.0	7 X 0.43	13.7	204	100	18.4	25
F4003	0417-04P00100-U0RD8-05	4	1.0	7 X 0.43	15.6	263	100	18.4	25
F4004	0417-05P00100-U0RD8-05	5	1.0	7 X 0.43	17.1	315	100	18.4	25
F4005	0417-07P00100-U0RD8-05	7	1.0	7 X 0.43	20.1	434	100	18.4	25
F4006	0417-10P00100-U0RD8-05	10	1.0	7 X 0.43	23.4	586	100	18.4	25
F4007	0417-12P00100-U0RD8-05	12	1.0	7 X 0.43	25.3	684	100	18.4	25
F4008	0417-15P00100-U0RD8-05	15	1.0	7 X 0.43	28.3	836	100	18.4	25
F4009	0417-20P00100-U0RD8-05	20	1.0	7 X 0.43	32.1	1099	100	18.4	25
F4010	0417-02P00150-U0RD8-05	2	1.5	7 X 0.53	14.3	188	100	12.3	25
F4011	0417-03P00150-U0RD8-05	3	1.5	7 X 0.53	14.8	246	100	12.3	25
F4012	0417-04P00150-U0RD8-05	4	1.5	7 X 0.53	16.8	317	100	12.3	25
F4013	0417-05P00150-U0RD8-05	5	1.5	7 X 0.53	18.5	384	100	12.3	25
F4014	0417-07P00150-U0RD8-05	7	1.5	7 X 0.53	21.7	528	100	12.3	25
F4015	0417-10P00150-U0RD8-05	10	1.5	7 X 0.53	25.3	716	100	12.3	25
F4016	0417-12P00150-U0RD8-05	12	1.5	7 X 0.53	27.4	839	100	12.3	25
F4017	0417-15P00150-U0RD8-05	15	1.5	7 X 0.53	30.7	1053	100	12.3	25

- Temperature range** : -20°C to + 90°C
Working voltage : 300 / 500 Volts.
Test voltage : 1000 Volts r.m.s. for 1 min.
Colour code : Black and White core with pair number on each core.
Based on : BS 5308/2

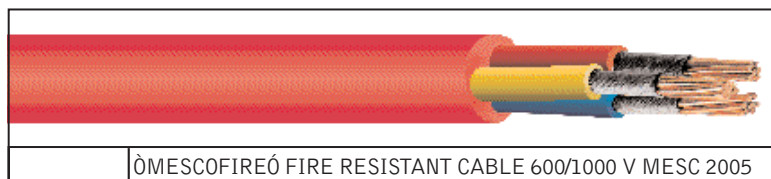
- Fire Resistant Property**
750°C for three hours to IEC 331.
950°C for three hours to BS 6387 Category C.
Complies to BS 6387 Category W & Z.
Flame Retardant to IEC 332-1.
Flame Retardant to IEC 332-3 Cat. A, B & C.
Passes Low Smoke Test as per IEC 1034.
Passes Halogen content Test as per IEC 754-2.

Note :1. Armoured cables can be supplied on demand. 2. Other insulation or sheath colours available if required.

FIRE SURVIVAL CABLES

LOW SMOKE FLAME RETARDANT HALOGEN FREE

LOW VOLTAGE POWER & CONTROL CABLE FOR INSTALLATION



- Conductor** : Stranded plain copper wire to IEC 228 Class 2.
Insulation : Flame Barrier Mica tape + Halogen free, Low smoke thermoplastic material.
Assembly : Cores laid in layers, wrapped with plastic binder if necessary.
Sheath : Halogen free, Low Smoke thermoplastic material. Sheath color Red. *

Order No.	MES C CODE	Cores No.	Size sq. mm	Strand X Dia. No. x mm	Approx. O. D. mm	Approx. Weight Kg/km
F1001	7417-02C00150-U0RD8-00	2	1.5	7 X 0.53	11.3	163
F1002	7417-03C00150-U0RD8-00	3	1.5	7 X 0.53	11.9	190
F1003	7417-04C00150-U0RD8-00	4	1.5	7 X 0.53	12.8	222
F1004	7417-02C00250-U0RD8-00	2	2.5	7 X 0.67	12.1	197
F1005	7417-03C00250-U0RD8-00	3	2.5	7 X 0.67	12.8	234
F1006	7417-04C00250-U0RD8-00	4	2.5	7 X 0.67	13.8	276
F1007	7417-02C00400-U0RD8-00	2	4.0	7 X 0.85	14.1	276
F1008	7417-03C00400-U0RD8-00	3	4.0	7 X 0.85	14.9	330
F1009	7417-04C00400-U0RD8-00	4	4.0	7 X 0.85	16.2	396
F1010	7417-02C00600-U0RD8-00	2	6.0	7 X 1.04	15.2	339
F1011	7417-03C00600-U0RD8-00	3	6.0	7 X 1.04	16.1	413
F1012	7417-04C00600-U0RD8-00	4	6.0	7 X 1.04	17.5	498
F1013	7417-02C01000-U0RD8-00	2	10.0	7 X 1.35	17.1	464
F1014	7417-03C01000-U0RD8-00	3	10.0	7 X 1.35	18.1	573
F1015	7417-04C01000-U0RD8-00	4	10.0	7 X 1.35	19.8	703

- Temperature range** : -20°C to + 90°C
Working voltage : 600 / 1000 Volts.
Test voltage : 3500 Volts r.m.s. for 1 min.
Colour code : 2 Core : Red & Black.
: 3 Core : Red , Yellow , Blue
: 4 Core : Red , Yellow , Blue & Black
Based on : IEC 60502

- Fire Resistant Property**
750°C for three hours to IEC 331.
950°C for three hours to BS 6387 Category C.
Complies to BS 6387 Category W & Z.
Flame Retardant to IEC 332-1.
Flame Retardant to IEC 332-3 Cat. A, B & C.
Passes Low Smoke Test as per IEC 1034.
Passes Halogen content Test as per IEC 754-2.

Note :1. Armoured cables can be supplied on demand. 2. Other insulation or sheath colours available if required.

FIRE SURVIVAL CABLES

LOW SMOKE FLAME RETARDANT HALOGEN FREE

**SINGLE CORE CABLE FOR INSTALLATION IN BUILDINGS,
POWER PLANTS & REFINERIES**



Conductor : Bunched plain copper wire to IEC 228 Class 5.

Insulation : Flame Barrier Mica Tape + Halogen Free Low Smoke thermoplastic material.colour red *.

Order No.	MESC CODE	Cores No.	Size No. sq. mm	Strand X Dia. No x mm	Approx. O. D. mm	Approx. Weight Kg/km
F1016	5187-01C00150-U0RD8-00	1	1.5	30 X 0.25	3.5	23
F1017	5187-01C00250-U0RD8-00	1	2.5	50 X 0.25	4.1	35
F1018	5187-01C00400-U0RD8-00	1	4.0	56 X 0.30	4.7	50
F1019	5187-01C00600-U0RD8-00	1	6.0	84 X 0.30	5.3	70
F1020	5187-01C01000-U0RD8-00	1	10.0	80 X 0.40	6.6	114

Temperature Range : -200C to + 900C
 Working Voltage : 1000 Volts.
 Test Voltage : 2500 Volts r.m.s. for 5 min.
 Conductor resistance : to IEC 228 Class 5.
 Based on : BS 6004

Fire Resistant Property
 7500C for three hours to IEC 331.
 9500C for three hours to BS 6387 Category C.
 Complies to BS 6387 Category W & Z.
 Flame Retardant to IEC 332-1.
 Flame Retardant to IEC 332-3 Cat. A, B & C.
 Passes Low Smoke Test as per IEC 1034.
 Passes Halogen content Test as per IEC 754-2.

Note :1. Other insulation or sheath colours available if required.

INSTRUMENTATION CABLE MULTIPAIR INDIVIDUALLY & COLLECTIVELY SCREENED, LEAD SHEATHED & AROMORED XLPE / IS / OS / LC / SWA / PVC

SPECIFICATION: BS: 5308/1, IEC-60502, IEC-60332

	INSTRUMENTATION CABLE CU/XLPE/LC/SWA/PVC SHIELDED 10X2X1.5 MM ²) 300/500V MES C 2005 BS 5308/1
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Construction

- Conductor** : Stranded plain copper to Class 2 of BS 6360 / IEC 60228.
- Insulation** : XLPE to IEC 60502
- Pairs / Triples** : Two / Three insulated conductors are uniformly twisted to form a pair / triple with 6-8 twists per foot.
- Color Code** : Blue / White for Pairs, Blue / White / Brown for Triples with each core numbered for multiple pair / triple identification.
- Individual Screen** : Aluminum backed Mylar tape is applied over each pair / triple with an overlap of 25% with metallic side down in contact with a drain wire of 0.5sq mm. All pair / triple shields are electrically isolated from each other.
- Cabling** : Required numbers of individually screened pairs / triples are assembled with non-hygroscopic filler if necessary and the assembly is wrapped with a polyester binder tape.
- Communication Pair** : 0.32 sq.mm, stranded, plain copper conductor insulated with 90¼C PVC thickness 0.2mm colored Red & Green twisted pair. Communication pair is included in the cable for multiple pair / triple cables.
- Collective Screen** : Aluminum backed Mylar tape is applied with an overlap of 25% with the metallic side down in contact with a drain wire of 0.5sq.mm run longitudinally over the binder tape.
- Inner Sheath** :
- Lead Sheath** : Extruded black PVC type 9 to BS 7655 / IEC 60502.
- Bedding** : An extruded sheath of lead alloy in accordance with BS EN 12548 (old BS 801) shall be applied over the inner sheath.
- Wire Armor** : Extruded black PVC type 9 to BS 7655 / IEC 60502 is applied over the lead sheath.
- Over Sheath** : A single layer of galvanized steel wire armour is applied spirally over the extruded PVC bedding.
- Printing on the Sheath** : Extruded black PVC type 9 to BS 7655 / IEC 60502 is applied over the galvanized steel wire armour. Flame retardant according to IEC 322-3 Cat. A and Cat C.
- Printing on the Sheath** : Instrumentation cable CU / XLPE / LC / SWA / PVC / SHIELDED... X 2 X mm2
300/500 V MES C YEAR BS 5308/1.

INSTRUMENTATION CABLE MULTIPAIR INDIVIDUALLY & COLLECTIVELY SCREENED, LEAD SHEATHED & ARMORED XLPE / IS / OS / LC / SWA / PVC

SPECIFICATION : BS: 5308/1, IEC-60502, IEC-60332

Technical Data :

- Temperature Range : 5¼C to 50¼C (During installation)
30¼C to 90¼C (During Operation)
- Voltage Rating : 300 / 500 Volts
- Conductor Resistance : Max. 12.3 ½/km at 20¼C (1.5sq.mm)
Max. 18.5 ½/km at 20¼C (1.0sq.mm)
- Mutual Capacitance (at 1 KHz) : Max. 120 nF/Km (1.5 sq.mm)
Max. 115 nF/Km (1.0 sq.mm)
- Capacitance Unbalanc (at 1 KHz) : Max. 250 pF/250Km
- L/R Ratio : Max. 25H/½ (1.0 sq.mm)
Max. 40H/½ (1.5 sq.mm)
- Insulation Resistance : Min. 5000 M½ - Km at 20¼C (500 V DC 1 minute)
- Voltage Test : 1000 V r.m.s. for 1 minute.

Order No.	MESC CODE	Pair	Size mm	Strands No. X mm	Insulation thickness mm	thickness Of lead mm	Approx. Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L4001	0414-02P00100-WLBK8-05	2	1.0	7x0.43	0.6	1.1	15.3	1.25	1.6	21.8
L4002	0414-03P00100-WLBK8-05	3	1.0	7x0.43	0.6	1.2	18.9	1.6	1.7	26.3
L4003	0414-04P00100-WLBK8-05	4	1.0	7x0.43	0.6	1.2	20.2	1.6	1.7	27.6
L4004	0414-05P00100-WLBK8-05	5	1.0	7x0.43	0.6	1.2	21.6	1.6	1.7	29.0
L4005	0414-06P00100-WLBK8-05	6	1.0	7x0.43	0.6	1.3	23.6	1.6	1.9	31.4
L4006	0414-07P00100-WLBK8-05	7	1.0	7x0.43	0.6	1.3	23.6	1.6	1.9	31.4
L4007	0414-08P00100-WLBK8-05	8	1.0	7x0.43	0.6	1.3	24.8	1.6	1.9	32.6
L4008	0414-09P00100-WLBK8-05	9	1.0	7x0.43	0.6	1.3	26.2	1.6	1.9	34.0
L4009	0414-10P00100-WLBK8-05	10	1.0	7x0.43	0.6	1.3	27.3	1.6	1.9	35.1
L4010	0414-12P00100-WLBK8-05	12	1.0	7x0.43	0.6	1.5	29.6	2.0	2.1	38.6
L4011	0414-15P00100-WLBK8-05	15	1.0	7x0.43	0.6	1.5	31.8	2.0	2.1	40.8
L4012	0414-16P00100-WLBK8-05	16	1.0	7x0.43	0.6	1.6	33.2	2.0	2.2	42.4
L4013	0414-18P00100-WLBK8-05	18	1.0	7x0.43	0.6	1.6	34.5	2.0	2.2	43.7
L4014	0414-20P00100-WLBK8-05	20	1.0	7x0.43	0.6	1.6	35.8	2.0	2.2	45.0
L4015	0414-25P00100-WLBK8-05	25	1.0	7x0.43	0.6	1.7	40.1	2.5	2.4	50.7
L4016	0414-30P00100-WLBK8-05	30	1.0	7x0.43	0.6	1.7	42.8	2.5	2.4	53.4

Order No.	MESC CODE	Triad	Size mm	Strands No. X mm	Insulation thickness mm	thickness Of lead mm	Approx. Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L4017	0414-02T00100-WLBK8-05	2	1.0	7x0.43	0.6	1.2	20.1	1.6	1.7	27.5
L4018	0414-03T00100-WLBK8-05	3	1.0	7x0.43	0.6	1.2	20.1	1.6	1.7	27.5
L4019	0414-04T00100-WLBK8-05	4	1.0	7x0.43	0.6	1.3	22.2	1.6	1.9	30.0
L4020	0414-05T00100-WLBK8-05	5	1.0	7x0.43	0.6	1.3	23.9	1.6	1.9	31.7
L4021	0414-06T00100-WLBK8-05	6	1.0	7x0.43	0.6	1.3	26.1	1.6	1.9	33.9
L4022	0414-07T00100-WLBK8-05	7	1.0	7x0.43	0.6	1.5	27.4	2.0	2.1	36.4
L4023	0414-08T00100-WLBK8-05	8	1.0	7x0.43	0.6	1.5	28.8	2.0	2.1	37.8
L4024	0414-09T00100-WLBK8-05	9	1.0	7x0.43	0.6	1.5	30.2	2.0	2.1	39.2
L4025	0414-10T00100-WLBK8-05	10	1.0	7x0.43	0.6	1.5	31.6	2.0	2.1	40.6
L4026	0414-12T00100-WLBK8-05	12	1.0	7x0.43	0.6	1.6	34.5	2.0	2.2	43.7
L4027	0414-15T00100-WLBK8-05	15	1.0	7x0.43	0.6	1.7	38.7	2.5	2.4	49.3
L4028	0414-16T00100-WLBK8-05	16	1.0	7x0.43	0.6	1.7	39.6	2.5	2.4	50.2
L4029	0414-18T00100-WLBK8-05	18	1.0	7x0.43	0.6	1.7	41.2	2.5	2.4	51.8
L4030	0414-20T00100-WLBK8-05	20	1.0	7x0.43	0.6	1.7	42.8	2.5	2.4	53.4

INSTRUMENTATION CABLE MULTIPAIR INDIVIDUALLY & COLLECTIVELY SCREENED, LEAD SHEATHED & ARMORED XLPE / IS / OS / LC / SWA / PVC

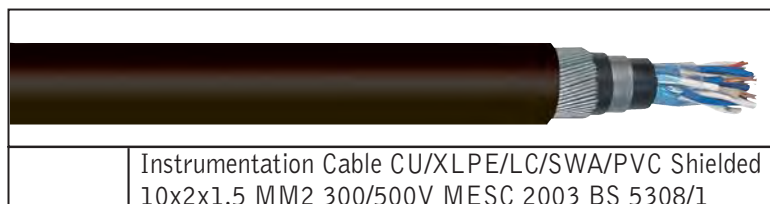
SPECIFICATION : BS: 5308/1, IEC-60502, IEC-60332

Order No.	MESC CODE	Pair	Size mm	Strands X No. X mm	Insulation thickness mm	thickness Of lead mm	Approx.Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L4031	0414-02P00150-WLBK8-05	2	1.5	7x0.53	0.6	1.1	19.1	1.6	1.7	26.5
L4032	0414-03P00150-WLBK8-05	3	1.5	7x0.53	0.6	1.2	20.3	1.6	1.8	27.9
L4033	0414-04P00150-WLBK8-05	4	1.5	7x0.53	0.6	1.2	21.7	1.6	1.8	29.3
L4034	0414-05P00150-WLBK8-05	5	1.5	7x0.53	0.6	1.2	23.3	1.6	1.8	30.9
L4035	0414-06P00150-WLBK8-05	6	1.5	7x0.53	0.6	1.5	26.5	2.0	2.1	35.5
L4036	0414-07P00150-WLBK8-05	7	1.5	7x0.53	0.6	1.5	26.5	2.0	2.1	35.5
L4037	0414-08P00150-WLBK8-05	8	1.5	7x0.53	0.6	1.5	27.8	2.0	2.1	36.8
L4038	0414-09P00150-WLBK8-05	9	1.5	7x0.53	0.6	1.5	29.3	2.0	2.1	38.3
L4039	0414-10P00150-WLBK8-05	10	1.5	7x0.53	0.6	1.5	30.6	2.0	2.1	39.6
L4040	0414-12P00150-WLBK8-05	12	1.5	7x0.53	0.6	1.6	32.3	2.0	2.2	41.5
L4041	0414-15P00150-WLBK8-05	15	1.5	7x0.53	0.6	1.6	34.8	2.0	2.2	44.0
L4042	0414-16P00150-WLBK8-05	16	1.5	7x0.53	0.6	1.7	36.3	2.5	2.3	46.7
L4043	0414-18P00150-WLBK8-05	18	1.5	7x0.53	0.6	1.7	37.8	2.5	2.3	48.2
L4044	0414-20P00150-WLBK8-05	20	1.5	7x0.53	0.6	1.7	39.2	2.5	2.3	49.6
L4045	0414-25P00150-WLBK8-05	25	1.5	7x0.53	0.6	1.9	43.5	2.5	2.4	54.1

Order No.	MESC CODE	Triad	Size mm	Strands X No. X mm	Insulation thickness mm	thickness Of lead mm	Approx.Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L4046	0414-02T00150-WLBK8-05	2	1.5	7x0.53	0.6	1.2	21.7	1.6	1.7	29.1
L4047	0414-03T00150-WLBK8-05	3	1.5	7x0.53	0.6	1.2	21.7	1.6	1.7	29.1
L4048	0414-04T00150-WLBK8-05	4	1.5	7x0.53	0.6	1.5	24.9	2.0	2.1	33.9
L4049	0414-05T00150-WLBK8-05	5	1.5	7x0.53	0.6	1.5	26.8	2.0	2.1	35.8
L4050	0414-06T00150-WLBK8-05	6	1.5	7x0.53	0.6	1.5	29.3	2.0	2.1	38.3
L4051	0414-07T00150-WLBK8-05	7	1.5	7x0.53	0.6	1.6	29.9	2.0	2.2	39.1
L4052	0414-08T00150-WLBK8-05	8	1.5	7x0.53	0.6	1.6	31.5	2.0	2.2	40.7
L4053	0414-09T00150-WLBK8-05	9	1.5	7x0.53	0.6	1.6	33.0	2.0	2.2	42.2
L4054	0414-10T00150-WLBK8-05	10	1.5	7x0.53	0.6	1.6	34.6	2.0	2.2	43.8
L4055	0414-12T00150-WLBK8-05	12	1.5	7x0.53	0.6	1.7	37.9	2.5	2.3	48.3
L4056	0414-15T00150-WLBK8-05	15	1.5	7x0.53	0.6	1.7	40.9	2.5	2.3	51.3

INSTRUMENTATION CABLE SINGLE & MULTIPAIR COLLECTIVELY SCREENED, LEAD SHEATHED & AROMORED XLPE / OS / LC / SWA / PVC

SPECIFICATION: BS: 5308/1, IEC-60502, IEC-60332



Construction

Conductor	:	Stranded plain copper to Class 2 of BS 6360 / IEC 60228.
Insulation	:	XLPE to IEC 60502
Pairs / Triples	:	Two / Three insulated conductors are uniformly twisted to form a pair / triple with 6-8 twists per foot.
Color Code	:	Blue / White for Pairs, Blue / White / Brown for Triples with each core numbered for multiple pair / triple identification.
Cabling	:	Required numbers of pairs / triples are assembled with non-hygroscopic filler if necessary and the assembly is wrapped with a polyester binder tape.
Communication Pair	:	0.32 sq.mm, stranded, plain copper conductor insulated with 90% PVC thickness 0.2mm colored Red & Green twisted pair. Communication pair is included in the cable for multiple pair / triple cables.
Collective Screen	:	Aluminum backed Mylar tape is applied with an overlap of 25% with the metallic side down in contact with a drain wire of 0.5sq.mm run longitudinally over the binder tape.
Inner Sheath	:	Extruded black PVC type 9 to BS 7655 / IEC 60502.
Lead Sheath	:	An extruded sheath of lead alloy in accordance with BS EN 12548 (old BS 801) shall be applied over the inner sheath.
Bedding	:	Extruded black PVC type 9 to BS 7655 / IEC 60502 is applied over the lead sheath.
Wire Armor	:	A single layer of galvanized steel wire armour is applied spirally over the extruded PVC bedding.
Over Sheath	:	Extruded black PVC type 9 to BS 7655 / IEC 60502 is applied over the galvanized steel wire armour. Flame retardant according to IEC 322-3 Cat. A and Cat C.
Printing on the Sheath	:	Instrumentation cable CU / XLPE / LC / SWA / PVC / SHIELDED... X 2 X mm2 300/500 V MES C YEAR BS 5308/1.

INSTRUMENTATION CABLE SINGLE & MULTIPAIR COLLECTIVELY SCREENED, LEAD SHEATHED & ARMORED XLPE / OS / LC / SWA / PVC

SPECIFICATION : BS: 5308/1, IEC-60502, IEC-60332

Technical Data :

- Temperature Range : 5¼C to 50¼C (During installation)
30¼C to 90¼C (During Operation)
- Voltage Rating : 300 / 500 Volts
- Conductor Resistance : Max. 12.3 /km at 20¼C (1.5sq.mm)
Max. 18.5 /km at 20¼C (1.0sq.mm)
- Mutual Capacitance (at 1 KHz) : Max. 120 nF/Km (1 and 2 pairs 1.5 sq.mm)
Max. 85 nF/Km (more than 2 pairs 1.5 sq.mm)
Max. 115 nF/Km (1 and 2 pairs 1.0 sq.mm)
Max. 75 nF/Km (more than 2 pairs 1.0 sq.mm)
- Capacitance Unbalanc (at 1 KHz) : Max. 250 pF/250Km
- L/R Ratio : Max. 25H/½ (1.0 sq.mm)
Max. 40H/½ (1.5 sq.mm)
- Insulation Resistance : Min. 5000 M½ - Km at 20¼C (500 V DC 1 minute)
- Voltage Test : 1000 V r.m.s. for 1 minute.

Order No.	MESC CODE	Pair	Size mm	Strands No. X mm	Insulation thickness mm	thickness Of lead mm	Approx. Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L2001	0214-01P00100-WLBK8-05	1	1.0	7x0.43	0.6	1.1	12.0	0.9	1.4	17.4
L2002	0214-02P00100-WLBK8-05	2	1.0	7x0.43	0.6	1.1	16.4	1.25	1.5	22.7
L2003	0214-03P00100-WLBK8-05	3	1.0	7x0.43	0.6	1.1	18.2	1.6	1.7	25.6
L2004	0214-04P00100-WLBK8-05	4	1.0	7x0.43	0.6	1.1	19.4	1.6	1.7	26.8
L2005	0214-05P00100-WLBK8-05	5	1.0	7x0.43	0.6	1.1	20.8	1.6	1.7	28.2
L2006	0214-06P00100-WLBK8-05	6	1.0	7x0.43	0.6	1.2	22.4	1.6	1.8	30.0
L2007	0214-07P00100-WLBK8-05	7	1.0	7x0.43	0.6	1.2	22.4	1.6	1.8	30.0
L2008	0214-08P00100-WLBK8-05	8	1.0	7x0.43	0.6	1.2	23.4	1.6	1.8	31.0
L2009	0214-09P00100-WLBK8-05	9	1.0	7x0.43	0.6	1.2	24.8	1.6	1.8	32.4
L2010	0214-10P00100-WLBK8-05	10	1.0	7x0.43	0.6	1.2	25.9	1.6	1.8	33.5
L2011	0214-12P00100-WLBK8-05	12	1.0	7x0.43	0.6	1.3	27.2	1.6	1.9	35.0
L2012	0214-15P00100-WLBK8-05	15	1.0	7x0.43	0.6	1.3	29.4	2.0	1.9	38.0
L2013	0214-16P00100-WLBK8-05	16	1.0	7x0.43	0.6	1.4	31.3	2.0	2.0	40.1
L2014	0214-18P00100-WLBK8-05	18	1.0	7x0.43	0.6	1.4	32.5	2.0	2.0	41.3
L2015	0214-20P00100-WLBK8-05	20	1.0	7x0.43	0.6	1.4	33.7	2.0	2.0	42.5
L2016	0214-25P00100-WLBK8-05	25	1.0	7x0.43	0.6	1.5	36.7	2.5	2.1	46.7
L2017	0214-30P00100-WLBK8-05	30	1.0	7x0.43	0.6	1.5	39.2	2.5	2.1	49.2

Order No.	MESC CODE	Triad	Size mm	Strands No. X mm	Insulation thickness mm	thickness Of lead mm	Approx. Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L2018	0214-01T00100-WLBK8-05	1	1.0	7x0.43	0.6	1.1	12.4	0.9	1.4	17.8
L2019	0214-02T00100-WLBK8-05	2	1.0	7x0.43	0.6	1.1	19.1	1.6	1.7	26.5
L2020	0214-03T00100-WLBK8-05	3	1.0	7x0.43	0.6	1.1	19.1	1.6	1.7	26.5
L2021	0214-04T00100-WLBK8-05	4	1.0	7x0.43	0.6	1.2	20.7	1.6	1.8	28.3
L2022	0214-05T00100-WLBK8-05	5	1.0	7x0.43	0.6	1.2	22.3	1.6	1.8	29.9
L2023	0214-06T00100-WLBK8-05	6	1.0	7x0.43	0.6	1.2	24.5	1.6	1.8	32.1
L2024	0214-07T00100-WLBK8-05	7	1.0	7x0.43	0.6	1.3	24.9	1.6	1.9	32.7
L2025	0214-08T00100-WLBK8-05	8	1.0	7x0.43	0.6	1.3	26.2	1.6	1.9	34.0
L2026	0214-09T00100-WLBK8-05	9	1.0	7x0.43	0.6	1.3	27.6	2.0	1.9	36.2
L2027	0214-10T00100-WLBK8-05	10	1.0	7x0.43	0.6	1.3	28.9	2.0	1.9	37.5
L2028	0214-12T00100-WLBK8-05	12	1.0	7x0.43	0.6	1.3	31.1	2.0	1.9	39.7
L2029	0214-15T00100-WLBK8-05	15	1.0	7x0.43	0.6	1.5	35.2	2.5	2.1	45.2
L2030	0214-16T00100-WLBK8-05	16	1.0	7x0.43	0.6	1.5	36.0	2.5	2.1	46.0
L2031	0214-18T00100-WLBK8-05	18	1.0	7x0.43	0.6	1.5	37.6	2.5	2.1	47.6
L2032	0214-20T00100-WLBK8-05	20	1.0	7x0.43	0.6	1.5	39.1	2.5	2.1	49.1

INSTRUMENTATION CABLE SINGLE & MULTIPAIR COLLECTIVELY SCREENED, LEAD SHEATHED & ARMORED XLPE / OS / LC / SWA / PVC

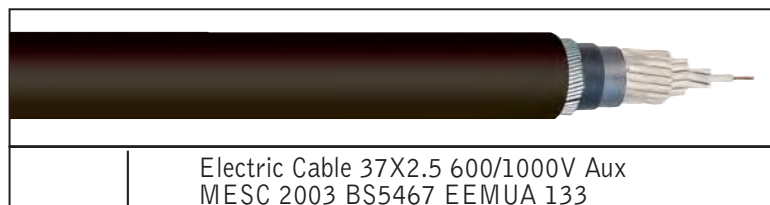
SPECIFICATION : BS: 5308/1, IEC-60502, IEC-60332

Order No.	MESC CODE	Pair	Size mm	Strands No. X mm	Insulation thickness mm	thickness Of lead mm	Approx.Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L2033	0214-01P00150-WLBK8-05	1	1.5	7x0.53	0.6	1.1	12.6	0.9	1.5	18.2
L2034	0214-02P00150-WLBK8-05	2	1.5	7x0.53	0.6	1.1	17.4	1.25	1.5	23.7
L2035	0214-03P00150-WLBK8-05	3	1.5	7x0.53	0.6	1.2	19.6	1.6	1.7	27.0
L2036	0214-04P00150-WLBK8-05	4	1.5	7x0.53	0.6	1.2	20.9	1.6	1.7	28.3
L2037	0214-05P00150-WLBK8-05	5	1.5	7x0.53	0.6	1.2	22.4	1.6	1.7	29.8
L2038	0214-06P00150-WLBK8-05	6	1.5	7x0.53	0.6	1.3	24.3	1.6	1.9	32.1
L2039	0214-07P00150-WLBK8-05	7	1.5	7x0.53	0.6	1.3	24.3	1.6	1.9	32.1
L2040	0214-08P00150-WLBK8-05	8	1.5	7x0.53	0.6	1.3	25.5	1.6	1.9	33.8
L2041	0214-09P00150-WLBK8-05	9	1.5	7x0.53	0.6	1.3	27.0	1.6	1.9	34.8
L2042	0214-10P00150-WLBK8-05	10	1.5	7x0.53	0.6	1.3	28.2	1.6	1.9	36.0
L2043	0214-12P00150-WLBK8-05	12	1.5	7x0.53	0.6	1.4	30.5	2.0	2.0	39.3
L2044	0214-15P00150-WLBK8-05	15	1.5	7x0.53	0.6	1.4	32.9	2.0	2.0	41.7
L2045	0214-16P00150-WLBK8-05	16	1.5	7x0.53	0.6	1.5	33.8	2.0	2.1	42.8
L2046	0214-18P00150-WLBK8-05	18	1.5	7x0.53	0.6	1.5	35.2	2.0	2.1	44.2
L2047	0214-20P00150-WLBK8-05	20	1.5	7x0.53	0.6	1.5	36.6	2.0	2.1	45.6
L2048	0214-25P00150-WLBK8-05	25	1.5	7x0.53	0.6	1.7	41.0	2.5	2.3	51.4
L2049	0214-30P00150-WLBK8-05	30	1.5	7x0.53	0.6	1.7	43.8	2.5	2.3	54.2

Order No.	MESC CODE	Triad	Size mm	Strands No. X mm	Insulation thickness mm	thickness Of lead mm	Approx.Dia Over Bedding mm	Armor Wire Dia. mm	Over sheath Thickness mm	Approx. Overall Dia.(mm).
L2050	0214-01T00150-WLBK8-05	1	1.5	7x0.53	0.6	1.1	13.4	1.25	1.5	19.7
L2051	0214-02T00150-WLBK8-05	2	1.5	7x0.53	0.6	1.2	20.6	1.6	1.7	28.0
L2052	0214-03T00150-WLBK8-05	3	1.5	7x0.53	0.6	1.2	20.6	1.6	1.7	28.0
L2053	0214-04T00150-WLBK8-05	4	1.5	7x0.53	0.6	1.3	22.5	1.6	1.9	30.3
L2054	0214-05T00150-WLBK8-05	5	1.5	7x0.53	0.6	1.3	24.3	1.6	1.9	32.1
L2055	0214-06T00150-WLBK8-05	6	1.5	7x0.53	0.6	1.3	26.7	1.6	1.9	34.5
L2056	0214-07T00150-WLBK8-05	7	1.5	7x0.53	0.6	1.3	26.7	1.6	1.9	34.5
L2057	0214-08T00150-WLBK8-05	8	1.5	7x0.53	0.6	1.4	29.4	2.0	2.0	38.2
L2058	0214-09T00150-WLBK8-05	9	1.5	7x0.53	0.6	1.4	30.9	2.0	2.0	39.7
L2059	0214-10T00150-WLBK8-05	10	1.5	7x0.53	0.6	1.4	32.4	2.0	2.0	41.2
L2060	0214-12T00150-WLBK8-05	12	1.5	7x0.53	0.6	1.4	34.8	2.0	2.0	43.6
L2061	0214-15T00150-WLBK8-05	15	1.5	7x0.53	0.6	1.7	39.3	2.5	2.3	49.7
L2062	0214-16T00150-WLBK8-05	16	1.5	7x0.53	0.6	1.7	40.2	2.5	2.3	50.6
L2063	0214-18T00150-WLBK8-05	18	1.5	7x0.53	0.6	1.7	42.0	2.5	2.3	52.4
L2064	0214-20T00150-WLBK8-05	20	1.5	7x0.53	0.6	1.7	43.6	2.5	2.3	54.0

CONTROL CABLES 0.6 / 1.0 KV. XLPE INSULATED, LEAD SHEATHED, WIRE ARMoured

Specification: EEMUA - 133



Application : Can be used outdoors for direct burial applications in areas that may be contaminated by petroleum based contents / hydrocarbons.

Construction :

Conductor : Annealed plain copper conductors stranded as per class 2 of BS 6360.

Insulation : Solid extruded XLPE as per BS 7655 / IEC 60502.

Core Colours : 2 Core : Red & Black.
3 Core & above : White cores with black number printing.

Lead Sheath : Extruded lead sheath over the polyester taped assembly as per EEMUA 133.

Bedding : Extruded black PVC as per BS 5467.

Steel Wire Armour : Galvanized Steel wire as per BS 5467.

Outer Sheath : Extruded PVC Type 9 as per BS 7655, passes flame retardance test as per IEC-60333 Cat C.

Technical Data :

Conductor resistance : As per class 2 of IEC-60228 / BS 6360.

Working Voltage : 600 / 1000 Volts.

Test Voltage : 3.5 kV. RMS or 8.4 kV. DC for 5 minutes.

Temperature : -25¼C to +90¼C.

Bending Radius : 12 X Cable ̄.

Maximum short circuit temperature : 250¼C (5 Seconds Max.).

Embossing Legend/Example : Electric cable XX X 2.5 600/1000 V AUX MESC YEAR BS 5467,EEMUA 133.

EEMUA= The Engineering Equipment and Materials Users Association.

CONTROL CABLES

0.6 / 1.0 KV. XLPE INSULATED, LEAD SHEATHED, WIRE ARMoured

Specification: EEMUA - 133

Order No.	MESC CODE	CORES X SIZE	INSULATION THICKNESS	THICKNESS LEAD SHEATH	DIAMETER OVER LEAD	THICKNESS OF BEDDING	DIA UNDER ARMOR	ARMOR WIRE DIA	DIA OVER ARMOR	SHEATH THICKNESS	APPROX. O.D.	APPROX. WEIGHT
		No.X Sq.mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
L7001	7614-02C00250-WLBK8-00	2X2.5	0.7	1.1	9.7	0.8	12.1	0.9	13.9	1.4	17.5	780
L7002	7614-03C00250-WLBK8-00	3X2.5	0.7	1.1	10.3	0.8	12.7	0.9	14.5	1.4	18.1	850
L7003	7614-04C00250-WLBK8-00	4X2.5	0.7	1.1	11.2	0.8	13.6	0.9	15.4	1.4	19.0	940
L7004	7614-05C00250-WLBK8-00	5X2.5	0.7	1.1	12.2	0.8	14.6	0.9	16.4	1.4	20.0	1040
L7005	7614-06C00250-WLBK8-00	6X2.5	0.7	1.1	13.3	0.8	15.7	0.9	17.5	1.4	21.1	1140
L7006	7614-07C00250-WLBK8-00	7X2.5	0.7	1.1	13.3	0.8	15.7	0.9	17.5	1.4	21.1	1160
L7007	7614-08C00250-WLBK8-00	8X2.5	0.7	1.1	14.9	0.8	17.3	1.25	19.8	1.6	23.8	1450
L7008	7614-09C00250-WLBK8-00	9X2.5	0.7	1.1	16.2	0.8	18.6	1.25	21.1	1.6	25.1	1570
L7009	7614-10C00250-WLBK8-00	10X2.5	0.7	1.1	16.9	0.8	19.3	1.25	21.8	1.6	25.8	1650
L7010	7614-12C00250-WLBK8-00	12X2.5	0.7	1.1	17.5	0.8	19.9	1.25	22.4	1.6	26.4	1760
L7011	7614-14C00250-WLBK8-00	14X2.5	0.7	1.2	18.6	1.0	21.4	1.25	24.6	1.6	28.8	2160
L7012	7614-16C00250-WLBK8-00	16X2.5	0.7	1.2	19.6	1.0	22.4	1.6	25.6	1.7	29.8	2310
L7013	7614-19C00250-WLBK8-00	19X2.5	0.7	1.2	20.7	1.0	23.5	1.6	26.7	1.7	30.9	2490
L7014	7614-24C00250-WLBK8-00	24X2.5	0.7	1.3	24.6	1.0	27.4	1.6	30.6	1.8	35.0	3070
L7015	7614-27C00250-WLBK8-00	27X2.5	0.7	1.4	25.4	1.0	28.2	1.6	31.4	1.8	35.8	3310
L7016	7614-30C00250-WLBK8-00	30X2.5	0.7	1.4	26.3	1.0	29.1	1.6	32.3	1.8	36.7	3480
L7017	7614-37C00250-WLBK8-00	37X2.5	0.7	1.4	28.4	1.0	31.2	1.6	34.4	1.8	38.8	3890
L7018	7614-48C00250-WLBK8-00	48X2.5	0.7	1.6	33.0	1.2	36.2	2.0	40.2	2.0	45.0	5240

TECHNICAL INFORMATION

TECHNICAL INFORMATION

ELECTRICAL PARAMETERS FOR PLTC CABLES SPECIFICATION UL13

TEST PARAMETERS	22 AWG	20 AWG	18 AWG	16 AWG
Conductor Resistance at 20°C (Ω/Km) Max.				
Uncoated copper	57.6	35.8	22.8	14.2
Coated copper	59.7	37.2	23.6	14.9
Insulation Resistance at 20°C (MΩ-Km) Min.(XLPE)	1000			
Spark Test Voltage (Volts) r.m.s.	1750			
Dielectric withstand Test (Volts DC for 2 Seconds)	2500			

DESIGN PARAMETERS FOR BALANCED PAIRS

Capacitance (C)

$$\text{Unshielded Twisted Pair} = \frac{7.218 \ \varepsilon}{\text{Log} \left[\frac{1.3 (D)}{f (d)} \right]}$$

$$\text{Shielded Twisted Pair} = \frac{12.14 \ \varepsilon}{\text{Log} \left[\frac{1.2 (D)}{f (d)} \right]}$$

$$\text{Overall Shielded \& Cabled} = \frac{9.515 \ \varepsilon}{\text{Log} \left[\frac{1.5 (D)}{f (d)} \right]}$$

Impedance Zo (ohms)

$$\text{Unshielded Twisted Pair} = \frac{310 \sqrt{\varepsilon}}{C}$$

$$\text{Shielded Twisted Pair} = \frac{276}{\sqrt{\varepsilon}} \text{Log} \frac{1.2(D)}{f (d)}$$

$$\text{Overall Shielded \& Cabled} = \frac{347}{\sqrt{\varepsilon}} \text{Log} \frac{1.5(D)}{f (d)}$$

- where
- C = Mutual capacitance in pF/m.
 - ε = Dielectric constant of insulation Material (Refer Table 1)
 - f = Stranding factor (Refer Table 2)
 - Vp = Velocity of propagation (Percentage of Velocity of Light)
 - D = Diameter over insulation in mm.
 - d = Diameter over conductor in mm.

TABLE 1

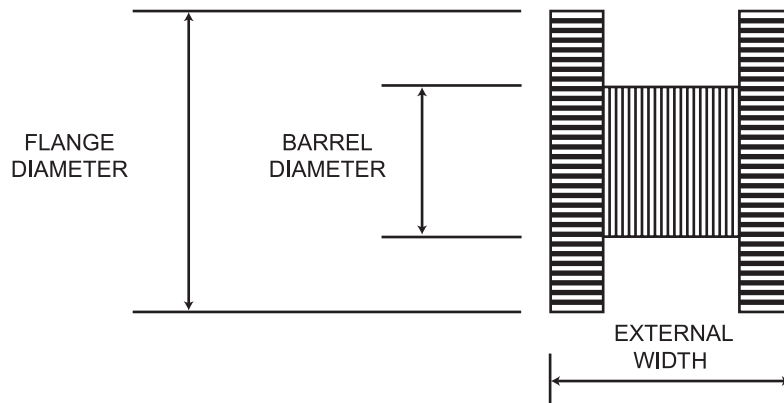
Insulation Material	Dielectric Constant	Vp(%)
PVC	5.0	45
PVC(Semi-Rigid)	4.6	47
Polyethylene	2.26	66
Cellular Polyethylene	1.56	82
Polypropylene	2.2	67

TABLE 2

Number of Strands	Stranding Factor (f)
1	1.000
7	0.939
19	0.970
37	0.980

TECHNICAL INFORMATION

M. E. S. C. WOODEN REEL DETAILS



DIMENSIONS AND WEIGHTS

REEL SIZE	FLANGE DIAMETER (mm)	BARREL DIAMETER (mm)	EXTERNAL WIDTH (mm)	EMPTY REEL WT (APPROX.) (KG.)
D - 5	500	250	372	9
D - 6	630	315	472	14
D - 7	710	355	522	18
D - 8	800	400	572	25
D - 9	900	450	632	32
D - 10	1000	500	726	40
D - 11	1100	560	806	60
D - 12	1250	630	896	85
D - 14	1400	710	996	105
D - 16	1600	800	1120	175

GUIDELINES FOR SELECTION OF REELS

Reel Size	Cable length = 1000 Meter Cable Range mm		Cable Length = 500 Meter Cable Range mm	
	Upto	to	Upto	to
D-5	4.4		6.6	
D-6	4.5	7.4	6.7	10.5
D-7	7.5	9.2	10.6	13.0
D-8	9.3	11.3	13.1	15.8
D-9	11.4	13.6	15.9	19.4
D-10	13.7	16.0	19.5	23.4
D-11	16.1	19.3	23.5	27.2
D-12	19.4	24.0	27.3	33.0
D-14	24.1	28.6	33.1	39.6
D-16	28.7	35.4	39.6	47.0

TECHNICAL INFORMATION

MAXIMUM PULLING TENSIONS

The maximum tension must not be exceeded when pulling a cable into ducts and conduits:

a. Using a pulling eye:

$$T_m = 7.16 \times n \times A$$

T_m = Maximum tension, (Kg)

n = No of conductors

A = Area of each conductor sq. mm

b. Using a cable grip:

$$T_g = \pi \times k \times t \times (D - d)$$

T_g = Maximum Tension, (Kg)

t = Jacket thickness, mm

D = Cable overall diameter, mm

k = 0.7 Kg/sq.mm for PVC, PE & Neoprene

The tension required to pull the cable in a straight duct can be calculated as follows:

$$T_s = L \times w \times f$$

T_s = Tension required to pull cable, Kg.

L = Length of cable, m

w = Weight of cable, Kg/m

f = Co-efficient of friction

Coefficient of friction

Duct Material	Jacket Material		
	PE	PVC	Neoprene
Asbestos Cement	0.56	0.56	0.68
Rigid PVC	0.34	0.52	0.53
Metal	0.36	0.55	0.60

TECHNICAL INFORMATION

AMERICAN WIRE GAUGE EQUIVALENTS

CROSS-SECTIONAL AREA mm ²	AMERICAN WIRE GAUGE		
	AWG or MCM	SOLID WIRE DIAMETER mm	CROSS SECTIONAL AREA mm ²
0.75	19 AWG	0.91	0.653
1.0	18	1.02	0.823
1.5	17	1.15	1.04
2.5	16	1.29	1.31
4	15	1.45	1.65
6	14	1.63	2.08
10	13	1.83	2.62
16	12	2.05	3.31
25	11	2.30	4.17
35	10	2.59	5.26
50	9	2.76	6.63
70	8	3.26	8.37
95	7	3.56	10.55
120	6	4.12	13.30
150	5	4.62	16.77
185	4	5.20	21.15
240	3	5.83	26.67
300	2	6.54	33.63
350	1	7.35	42.41
400	1/0	8.25	53.48
450	2/0	9.27	67.43
500	3/0	10.40	85.03
550	4/0	11.68	107.20
600	250 MCM	-	126.68
650	300	-	152.00
700	350	-	177.35
750	400	-	202.68
800	450	-	228.00
850	500	-	253.35
900	550	-	278.69
950	600	-	304.00
1000	650	-	329.36
1050	700	-	354.69
1100	750	-	380.00
1150	800	-	405.36
1200	850	-	430.70
1250	900	-	456.00
1300	1000	-	506.70
1350	1100	-	557.37
1400	1200	-	608.00
1450	1300	-	658.71
1500	1400	-	709.38
1550	1500	-	760.00
1600	1600	-	810.72
1650	1700	-	861.39
1700	1800	-	912.00
1750	1900	-	962.73
1800	2000	-	1013.40

Head Office:

Second Industrial Area, Phase 3
P.O. Box 585, Riyadh 11383, KSA
Tel.: +966 1 265 0555
Fax: +966 1 265 0712
E-mail: sales@MESCCables.com
Website: www.MESCCable.com



Branches and Regional Offices:

Riyadh Sales Office:

Munab 1, Building 3, Malaz Sitteen Street
P.O. Box 60536, Riyadh 11555, KSA
Tel.: +966 1 478 7574
Fax: +966 1 478 7973
E-mail: riyyadh.sales@MESCCables.com



Jeddah Sales Office:

Al Aziziah Building 2, Baladiya Street
P.O. Box 122048, Jeddah 21332, KSA
Tel.: +966 2 664 0905
Fax: +966 2 661 2295
E-mail: jeddah.sales@MESCCables.com



Khobar Sales Office:

Silver Tower 8th Floor, King Abdul Aziz Street
P.O. Box 32257, Khobar 31952, KSA
Tel.: +966 3 899 4646
Fax: +966 3 899 8465
E-mail: khobar.sales@MESCCables.com



Dubai Regional Office:

Al-Hawai Tower, 101 Shaikh Zayed Road
P.O. Box 73750, Dubai, UAE
Tel.: +971 4 343 7885
Fax: +971 4 343 7488
E-mail: dubai.sales@MESCCables.com

