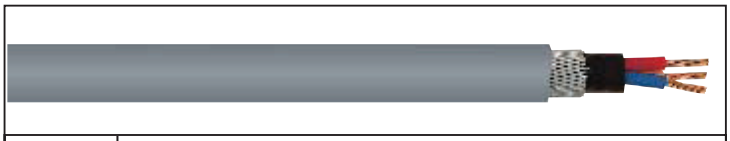
0.6/1 KV XLPE INSULATED WIRE ARMOURED CABLES

IEC - 60502 BS - 5467

Specification : IEC 60502, BS - 5467



CU/XLPE/SWA/PVC 3CX4MM2 600/1000 V MESC 2005

Application : Can be used indoors or outdoors in cable ducts, cable trays, conduits or underground locations under mechanical stresses in power and switching stations, local distribution systems, industrial plants and commercial buildings.

Construction

- **Conductor** : Annealed plain copper conductor solid as per class 1 and stranded as per class 2 of IEC-60228.
- **Insulation** : Solid extruded XLPE as per IEC- 60502-1.
- **Core colours** :
  - 2 Core : Red & Black.
  - 3 Core : Red, Yellow & Blue.
  - 4 Core : Red, Yellow, Blue & Black.
  - 5 Core & above : Black cores with Number printing.
- **Inner covering** : Extruded PVC compatible with the operating temperature of the conductor.
- **Steel Wire Armour** : Galvanized Steel wire as per IEC- 60502-1.
- **Outer Sheath** : Extruded PVC Type ST-2 as per IEC-60502-1, passes flame retardance test as per IEC-60332-1. Also passes flame test as per IEC-60332-3 Cat C.

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Technical Data

- **Conductor resistance** : As per class 1 & 2 of IEC-60228.
- **Working voltage** : 600 / 1000 Volts.
- **Test Voltage** : 3.5 kV. RMS or 8.4 kV. DC for 5 minutes
- **Temperature** : -25 ûC to +90 ûC.
- **Bending Radius** : 6 X Cable ∅.
- **Maximum short circuit temperature** : 250 ûC (5 Seconds Max.).
- **For current ratings of these cables** : Refer to Technical Section of the catalogue.

MESC
SPECIALIZED CABLES

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2 CORE CABLES

Order No.	MESC Code	Cores X Size No.XSq.mm	Strandx Dia No.Xmm	Insulation Thickness mm	Inn. Sh. O. D. mm	Armor Wire Dia. mm	Dia.Over Armor mm	Sheath Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km	Standard Length m
76175	7664-02C 00150-W0BK8-00	2X1.5	1X1.38	0.7	8.0	0.9	9.8	1.8	13.5	350	1000
76176	7614-02C 00150-W0BK8-00	2X 1.5	7X0.53	0.7	8.4	0.9	10.2	1.8	14.0	370	1000
76177	7664-02C 00250-W0BK8-00	2X 2.5	1X1.78	0.7	8.8	0.9	10.6	1.8	14.3	405	1000
76178	7614-02C 00250-W0BK8-00	2X 2.5	7X0.67	0.7	9.2	0.9	11.0	1.8	14.8	420	1000
76179	7664-02C 00400-W0BK8-00	2X 4	1X2.25	0.7	9.7	0.9	11.5	1.8	15.3	470	1000
76180	7614-02C 00400-W0BK8-00	2X 4	7X0.85	0.7	10.3	0.9	12.1	1.8	15.9	500	1000
76181	7664-02C 00600-W0BK8-00	2X 6	1X2.76	0.7	10.7	0.9	12.5	1.8	16.3	550	1000
76182	7614-02C 00600-W0BK8-00	2X 6	7X1.04	0.7	11.4	0.9	13.2	1.8	17.0	585	1000
76183	7614-02C 01000-W0BK8-00	2X 10	7X1.35	0.7	13.3	1.25	15.8	1.8	19.6	850	1000
76184	7614-02C 01600-W0BK8-00	2X 16	7X1.70	0.7	15.4	1.25	17.9	1.8	21.7	1075	1000
76185	7614-02C 02500-W0BK8-00	2X 25	7X2.14	0.9	18.8	1.6	22.0	1.8	25.8	1615	500
76186	7614-02C 03500-W0BK8-00	2X 35	7X2.52	0.9	21.1	1.6	24.3	1.8	28.1	1955	500
76187	7614-02C 05000-W0BK8-00	2X 50	19X1.78	1.0	24.2	1.6	27.4	1.8	31.2	2395	500
76188	7614-02C 07000-W0BK8-00	2X 70	19X2.14	1.1	28.2	1.6	31.4	2.0	35.6	3150	500

3 CORE CABLES

Order No.	MESC Code	Cores X Size No.XSq.mm	Strandx Dia No.Xmm	Insulation Thickness mm	Inn. Sh. O. D. mm	Armor Wire Dia. mm	Dia.Over Armor mm	Sheath Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km	Standard Length m
76189	7664-03C 00150-W0BK8-00	3X1.5	1X1.38	0.7	8.4	0.9	10.2	1.8	14.0	375	1000
76190	7614-03C 00150-W0BK8-00	3X 1.5	7X0.53	0.7	8.9	0.9	10.7	1.8	14.5	400	1000
76191	7664-03C 00250-W0BK8-00	3X 2.5	1X1.78	0.7	9.3	0.9	11.1	1.8	14.9	440	1000
76192	7614-03C 00250-W0BK8-00	3X 2.5	7X0.67	0.7	9.8	0.9	11.6	1.8	15.4	465	1000
76193	7664-03C 00400-W0BK8-00	3X 4	1X2.25	0.7	10.3	0.9	12.1	1.8	15.9	525	1000
76194	7614-03C 00400-W0BK8-00	3X 4	7X0.85	0.7	11.0	0.9	12.8	1.8	16.5	555	1000
76195	7664-03C 00600-W0BK8-00	3X 6	1X2.76	0.7	11.4	0.9	13.2	1.8	17.0	625	1000
76196	7614-03C 00600-W0BK8-00	3X 6	7X1.04	0.7	12.2	0.9	14.0	1.8	17.8	660	1000
76197	7614-03C 01000-W0BK8-00	3X 10	7X1.35	0.7	14.2	1.25	16.7	1.8	20.5	970	1000
76198	7614-03C 01600-W0BK8-00	3X 16	7X1.7	0.7	16.5	1.25	19.0	1.8	22.7	1260	1000
76199	7614-03C 02500-W0BK8-00	3X 25	7X2.14	0.9	20.2	1.6	23.4	1.8	27.2	1890	500
76200	7614-03C 03500-W0BK8-00	3X 35	7X2.52	0.9	22.6	1.6	25.8	1.8	29.6	2325	500
76201	7614-03C 05000-W0BK8-00	3X 50	19X1.78	1.0	26.0	1.6	29.2	1.9	33.2	2910	500
76202	7614-03C 07000-W0BK8-00	3X 70	19X2.14	1.1	30.7	2.0	34.7	2.0	38.9	4130	500

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4 CORE CABLES WITH REDUCED NEUTRAL (3 & 1/2 Core)

Order No.	MESC Code	Cores X Size No.XSq.mm	Strandx Dia No.Xmm	Insulation Thickness mm	Inn. Sh. O. D. mm	Armor Wire Dia. mm	Dia.Over Armor mm	Sheath Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km	Standard Length m
76203	7614-3/501000-W0BK8-00	3X10/6	7X1.35 7X1.04	0.7 0.7	14.8	1.25	17.3	1.8	21.1	1055	1000
76204	7614-3/501600-W0BK8-00	3X16/10	7X1.7 7X1.35	0.7 0.7	17.3	1.25	19.8	1.8	23.6	1380	1000
76205	7614-3/502500-W0BK8-00	3X25/16	7X2.14 7X1.7	0.9 0.7	21.1	1.6	24.3	1.8	28.1	2075	500
76206	7614-3/503500-W0BK8-00	3X35/16	7X2.52 7X1.7	0.9 0.7	23.1	1.6	26.3	1.8	30.1	2470	500
76207	7614-3/505000-W0BK8-00	3X50/25	19X1.78 7X2.14	1.0 0.9	27.0	1.6	30.2	1.9	34.2	3180	500
76208	7614-3/507000-W0BK8-00	3X70/35	19X2.14 7X2.52	1.1 0.9	31.7	2.0	35.7	2.1	40.1	4530	500

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4 CORE CABLES

Order No.	MESC Code	Cores X Size No.XSq.mm	Strandx Dia No.Xmm	Insulation Thickness mm	Inn. Sh. O. D. mm	Armor Wire Dia. mm	Dia.Over Armor mm	Sheath Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km	Standard Length m
76209	7664-04C 00150-W0BK8-00	4X1.5	1X1.38	0.7	9.1	0.9	10.9	1.8	14.7	420	1000
76210	7614-04C 00150-W0BK8-00	4X 1.5	7X0.53	0.7	9.7	0.9	11.5	1.8	15.2	440	1000
76211	7664-04C 00250-W0BK8-00	4X2.5	1X1.78	0.7	10.1	0.9	11.9	1.8	15.7	495	1000
76212	7614-04C 00250-W0BK8-00	4X 2.5	7X0.67	0.7	10.7	0.9	12.5	1.8	16.5	520	1000
76213	7664-04C 00400-W0BK8-00	4X 4	1X2.25	0.7	11.2	0.9	13.0	1.8	16.8	595	1000
76214	7614-04C 00400-W0BK8-00	4X 4	7X0.85	0.7	12.0	0.9	13.8	1.8	17.5	625	1000
76215	7664-04C 00600-W0BK8-00	4X 6	1X2.76	0.7	12.5	0.9	14.3	1.8	18.1	715	1000
76216	7614-04C 00600-W0BK8-00	4X 6	7X1.04	0.7	13.3	1.25	15.8	1.8	19.6	815	1000
76217	7614-04C 01000-W0BK8-00	4X 10	7X1.35	0.7	15.6	1.25	18.1	1.8	21.9	1220	1000
76218	7614-04C 01600-W0BK8-00	4X 16	7X1.7	0.7	18.1	1.6	21.3	1.8	25.1	1610	1000
76219	7614-04C 02500-W0BK8-00	4X 25	7X2.14	0.9	22.3	1.6	25.5	1.8	29.2	2220	500
76220	7614-04C 03500-W0BK8-00	4X 35	7X2.52	0.9	25.0	1.6	28.2	1.9	32.2	2770	500
76221	7614-04C 05000-W0BK8-00	4X 50	19X1.78	1.0	28.7	2.0	32.7	2.0	36.9	3730	500
76222	7614-04C 07000-W0BK8-00	4X 70	19X2.14	1.1	33.9	2.0	37.9	2.1	42.3	4970	500

MULTI CORE CABLES

Order No.	MESC Code	Cores X Size No.XSq.mm	Strandx Dia No.Xmm	Insulation Thickness mm	Inn. Sh. O. D. mm	Armor Wire Dia. mm	Dia.Over Armor mm	Sheath Thickness mm	Approx. O. D. mm	Approx. Weight Kg/Km	Standard Length m
76223	7664-05C 00150-W0BK8-00	5 X1.5	1X1.38	0.7	10.0	0.9	11.8	1.8	15.6	465	1000
76224	7614-05C 00150-W0BK8-00	5 X1.5	7X0.53	0.7	10.5	0.9	12.3	1.8	16.1	485	1000
76225	7664-05C 00250-W0BK8-00	5 X2.5	1X1.78	0.7	11.1	0.9	12.9	1.8	16.6	545	1000
76226	7614-05C 00250-W0BK8-00	5 X2.5	7X0.67	0.7	11.7	0.9	13.5	1.8	17.3	575	1000
76227	7664-05C 00400-W0BK8-00	5 X4	1X2.25	0.7	12.3	0.9	14.1	1.8	17.9	665	1000
76228	7614-05C 00400-W0BK8-00	5 X4	7X0.85	0.7	13.1	0.9	14.9	1.8	18.7	810	1000
76229	7664-06C 00150-W0BK8-00	6 X1.5	1X1.38	0.7	11.0	0.9	12.8	1.8	16.6	515	1000
76230	7614-06C 00150-W0BK8-00	6 X1.5	7X0.53	0.7	11.7	0.9	13.5	1.8	17.3	550	1000
76231	7664-06C 00250-W0BK8-00	6 X2.5	1X1.78	0.7	12.2	0.9	14.0	1.8	17.8	620	1000
76232	7614-06C 00250-W0BK8-00	6 X2.5	7X0.67	0.7	12.9	0.9	14.7	1.8	18.5	650	1000
76233	7664-06C 00400-W0BK8-00	6 X4	1X2.25	0.7	13.7	1.25	16.2	1.8	19.9	865	1000
76234	7614-06C 00400-W0BK8-00	6 X4	7X0.85	0.7	14.6	1.25	17.1	1.8	20.8	910	1000
76235	7664-07C 00150-W0BK8-00	7 X1.5	1X1.38	0.7	11.0	0.9	12.8	1.8	16.6	535	1000
76236	7614-07C 00150-W0BK8-00	7 X1.5	7X0.53	0.7	11.7	0.9	13.5	1.8	17.3	570	1000
76237	7664-07C 00250-W0BK8-00	7 X2.5	1X1.78	0.7	12.2	1.25	14.7	1.8	18.5	750	1000
76238	7614-07C 00250-W0BK8-00	7 X2.5	7X0.67	0.7	12.9	1.25	15.4	1.8	19.2	780	1000
76239	7664-07C 00400-W0BK8-00	7 X4	1X2.25	0.7	13.7	1.25	16.2	1.8	19.9	905	1000
76240	7614-07C 00400-W0BK8-00	7 X4	7X0.85	0.7	14.6	1.25	17.1	1.8	20.8	955	1000
76241	7664-08C 00150-W0BK8-00	8 X1.5	1X1.38	0.7	12.3	0.9	14.1	1.8	17.9	595	1000
76242	7614-08C 00150-W0BK8-00	8 X1.5	7X0.53	0.7	13.1	0.9	14.9	1.8	18.6	640	1000
76243	7664-08C 00250-W0BK8-00	8 X2.5	1X1.78	0.7	13.7	1.25	16.6	1.8	20.0	825	1000
76244	7614-08C 00250-W0BK8-00	8 X2.5	7X0.67	0.7	14.5	1.25	17.0	1.8	20.8	885	1000
76245	7664-08C 00400-W0BK8-00	8 X4	1X2.25	0.7	15.3	1.25	17.8	1.8	21.6	1020	1000
76246	7614-08C 00400-W0BK8-00	8 X4	7X0.85	0.7	16.4	1.25	18.9	1.8	22.7	1090	1000
76247	7664-09C 00150-W0BK8-00	9 X1.5	1X1.38	0.7	13.3	0.9	15.1	1.8	18.9	650	1000
76248	7614-09C 00150-W0BK8-00	9 X1.5	7X0.53	0.7	14.1	0.9	15.9	1.8	19.7	705	1000
76249	7664-09C 00250-W0BK8-00	9 X2.5	1X1.78	0.7	14.9	1.25	17.4	1.8	21.1	910	1000
76250	7614-09C 00250-W0BK8-00	9 X2.5	7X0.67	0.7	15.7	1.25	18.2	1.8	22.0	975	1000
76251	7664-09C 00400-W0BK8-00	9 X4	1X2.25	0.7	16.7	1.25	19.2	1.8	22.9	1115	1000
76252	7614-09C 00400-W0BK8-00	9 X4	7X0.85	0.7	17.8	1.25	20.3	1.8	24.1	1210	1000
76253	7664-10C 00150-W0BK8-00	10 X1.5	1X1.38	0.7	13.9	0.9	15.7	1.8	19.5	685	1000
76254	7614-10C 00150-W0BK8-00	10 X1.5	7X0.53	0.7	14.8	0.9	16.6	1.8	20.3	725	1000
76255	7664-10C 00250-W0BK8-00	10 X2.5	1X1.78	0.7	15.5	1.25	18.0	1.8	21.8	960	1000
76256	7614-10C 00250-W0BK8-00	10 X2.5	7X0.67	0.7	16.4	1.25	18.9	1.8	22.7	1015	1000
76257	7664-10C 00400-W0BK8-00	10 X4	1X2.25	0.7	17.4	1.6	20.6	1.8	24.4	1325	1000
76258	7614-10C 00400-W0BK8-00	10 X4	7X0.85	0.7	18.6	1.6	21.8	1.8	25.6	1400	500
76259	7664-12C 00150-W0BK8-00	12 X1.5	1X1.38	0.7	14.4	1.25	16.9	1.8	20.7	860	1000
76260	7614-12C 00150-W0BK8-00	12X1.5	7X0.53	0.7	15.3	1.25	17.8	1.8	21.5	905	1000
76261	7664-12C 00250-W0BK8-00	12X2.5	1X1.78	0.7	16.0	1.25	18.5	1.8	22.3	1045	1000
76262	7614-12C 00250-W0BK8-00	12X2.5	7X0.67	0.7	17.0	1.25	19.5	1.8	23.3	1095	1000
76263	7664-12C 00250-W0BK8-00	12X4	1X2.25	0.7	18.0	1.6	21.2	1.8	25.0	1440	1000
76264	7614-12C 00400-W0BK8-00	12X4	7X0.85	0.7	19.3	1.6	22.5	1.8	26.2	1515	500

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