

0.6/1 KV XLPE INSULATED SCREENED CABLES (N2XCY)

IEC - 60502-1



ELECTRIC CABLE (N2XCY) CU/XLPE/PVC SHIELDED 3X2.5/2.5 600/1000V MES C 2005

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

Construction

- | **Conductor*** : Annealed plain copper conductor, stranded as per class 2 of IEC-60228
- | **Insulation** : Solid extruded XLPE as per IEC-60502-1.
- | **Core colours**** :
 - 2 Core : Blue & Brown.
 - 3 Core : Blue, Black & Brown.
 - 4 Core : Blue, Black, Brown & Black.
 - 5 Core & above : White cores with Number printing.
- | **Inner covering** : Extruded PVC compatible with the operating temperature of the conductor.
- | **Screening** : The screen shall consist of copper wires laid over the inner covering with a transverse helix of copper tape.
The screen area shall be as follows :

No. of Cores	Screen Cross Sectional Area
Under 12	Equivalent to conductor cross section
12 & under 19	not less than 2.5 sq. mm
19 & over	not less than 4 sq. mm
- | **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.

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°C to +90°C.
- | **Bending Radius** :
 - Upto 25mm O.D. 8 X Cables Ø.
 - Above 25mm O.D. 10 X Cables Ø.
- | **Maximum short circuit temperature** : 250°C (5 Seconds Max.).
- | **For current ratings of these cables** : Refer to Technical Section of the catalogue.

NOTE : These cables comply completely with EWR/ESR specification.

* Solid conductors for 1.5 mm², 2.5 mm² & 4 mm², can be supplied on request.

** Other colour codes can be supplied on request.

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2 CORE

Order No.	MESC CODE	Cores X Size No.XSq.mm	Strand X Diameter No.X mm	Insulation Thickness mm	Sheath Thickness mm	Approx. O. D mm.	Approx. Weight Kg/Km	Standard Length m
79001	7914-02C00150-U0BK8-00	2X1.5	7X0.53	0.7	1.8	13.1	233	1000
79002	7914-02C00250-U0BK8-00	2X2.5	7X0.67	0.7	1.8	14.1	283	1000
79003	7914-02C00400-U0BK8-00	2X4	7X0.85	0.7	1.8	15.5	356	1000
79004	7914-02C00600-U0BK8-00	2X6	7X1.04	0.7	1.8	16.7	446	1000
79005	7914-02C01000-U0BK8-00	2X10	7X1.35	0.7	1.8	18.9	627	1000
79006	7914-02C01600-U0BK8-00	2X16	7X1.70	0.7	1.8	21.3	865	1000
79007	7914-02C02500-U0BK8-00	2X25	7X2.14	0.9	1.8	25.0	1266	1000
79008	7914-02C03500-U0BK8-00	2X35	7X2.52	0.9	1.8	27.6	1641	500
79009	7914-02C05000-U0BK8-00	2X50	19X1.78	1.0	1.9	31.1	2137	500
79010	7914-02C07000-U0BK8-00	2X70	19X2.14	1.1	2.0	35.6	2954	500

3 CORE

Order No.	MESC CODE	Cores X Size No.XSq.mm	Strand X Diameter No.X mm	Insulation Thickness mm	Sheath Thickness mm	Approx. O. D mm.	Approx. Weight Kg/Km	Standard Length m
79011	7914-03C00150-U0BK8-00	3X1.5	7X0.53	0.7	1.8	13.6	256	1000
79012	7914-03C00250-U0BK8-00	3X2.5	7X0.67	0.7	1.8	14.6	314	1000
79013	7914-03C00400-U0BK8-00	3X4	7X0.85	0.7	1.8	16.0	402	1000
79014	7914-03C00600-U0BK8-00	3X6	7X1.04	0.7	1.8	17.4	511	1000
79015	7914-03C01000-U0BK8-00	3X10	7X1.35	0.7	1.8	19.8	731	1000
79016	7914-03C01600-U0BK8-00	3X16	7X1.70	0.7	1.8	22.3	1023	1000
79017	7914-03C02500-U0BK8-00	3X25	7X2.14	0.9	1.8	26.3	1511	500
79018	7914-03C03500-U0BK8-00	3X35	7X2.52	0.9	1.8	29.0	1980	500
79019	7914-03C05000-U0BK8-00	3X50	19X1.78	1.0	2.0	33.0	2591	500
79020	7914-03C07000-U0BK8-00	3X70	19X2.14	1.1	2.1	37.8	3604	500

4 CORE

Order No.	MESC CODE	Cores X Size No.XSq.mm	Strand X Diameter No.X mm	Insulation Thickness mm	Sheath Thickness mm	Approx. O. D mm.	Approx. Weight Kg/Km	Standard Length m
79021	7914-04C00150-U0BK8-00	4X1.5	7X0.53	0.7	1.8	14.3	285	1000
79022	7914-04C00250-U0BK8-00	4X2.5	7X0.67	0.7	1.8	15.5	354	1000
79023	7914-04C00400-U0BK8-00	4X4	7X0.85	0.7	1.8	17.0	458	1000
79024	7914-04C00600-U0BK8-00	4X6	7X1.04	0.7	1.8	18.5	588	1000
79025	7914-04C01000-U0BK8-00	4X10	7X1.35	0.7	1.8	21.1	850	1000
79026	7914-04C01600-U0BK8-00	4X16	7X1.70	0.7	1.8	23.9	1202	1000
79027	7914-04C02500-U0BK8-00	4X25	7X2.14	0.9	1.8	28.3	1787	500
79028	7914-04C03500-U0BK8-00	4X35	7X2.52	0.9	1.9	31.4	2368	500
79029	7914-04C05000-U0BK8-00	4X50	19X1.78	1.0	2.1	35.8	3103	500

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MULTI CORE

Order No.	MESC CODE	Cores X Size No.XSq.mm	Strand X Diameter No.X mm	Insulation Thickness mm	Sheath Thickness mm	Approx. O. D mm.	Approx. Weight Kg/Km	Standard Length m
79030	7914-05C00150-U0BK8-00	5 X1.5	7X0.53	0.7	1.8	15.2	318	1000
79031	7914-05C00250-U0BK8-00	5 X2.5	7X0.67	0.7	1.8	16.5	399	1000
79032	7914-05C00400-U0BK8-00	5 X4	7X0.85	0.7	1.8	18.1	521	1000
79033	7914-06C00150-U0BK8-00	6 X1.5	7X0.53	0.7	1.8	16.1	353	1000
79034	7914-06C00250-U0BK8-00	6 X2.5	7X0.67	0.7	1.8	17.5	446	1000
79035	7914-06C00400-U0BK8-00	6 X4	7X0.85	0.7	1.8	19.3	593	1000
79036	7914-07C00150-U0BK8-00	7 X1.5	7X0.53	0.7	1.8	16.1	373	1000
79037	7914-07C00250-U0BK8-00	7 X2.5	7X0.67	0.7	1.8	17.5	475	1000
79038	7914-07C00400-U0BK8-00	7 X4	7X0.85	0.7	1.8	19.3	638	1000
79039	7914-10C00150-U0BK8-00	10 X1.5	7X0.53	0.7	1.8	19.1	491	1000
79040	7914-10C00250-U0BK8-00	10 X2.5	7X0.67	0.7	1.8	20.9	630	1000
79041	7914-10C00400-U0BK8-00	10 X4	7X0.85	0.7	1.8	23.2	842	1000
79042	7914-12C00150-U0BK8-00	12 X1.5	7X0.53	0.7	1.8	19.8	552	1000
79043	7914-12C00250-U0BK8-00	12 X2.5	7X0.67	0.7	1.8	21.5	701	1000
79044	7914-12C00400-U0BK8-00	12 X4	7X0.85	0.7	1.8	23.8	946	1000
79045	7914-16C00150-U0BK8-00	16 X1.5	7X0.53	0.7	1.8	21.4	662	1000
79046	7914-16C00250-U0BK8-00	16 X2.5	7X0.67	0.7	1.8	23.3	855	1000
79047	7914-16C00400-U0BK8-00	16 X4	7X0.85	0.7	1.8	26.0	1169	500
79048	7914-19C00150-U0BK8-00	19 X1.5	7X0.53	0.7	1.8	22.5	754	1000
79049	7914-19C00250-U0BK8-00	19 X2.5	7X0.67	0.7	1.8	24.5	979	1000
79050	7914-19C00400-U0BK8-00	19 X4	7X0.85	0.7	1.9	27.4	1340	500
79051	7914-24C00150-U0BK8-00	24 X1.5	7X0.53	0.7	1.8	25.5	905	500
79052	7914-24C00250-U0BK8-00	24 X2.5	7X0.67	0.7	1.8	28.0	1185	500
79053	7914-24C00400-U0BK8-00	24 X4	7X0.85	0.7	2.0	31.6	1658	500
79054	7914-27C00150-U0BK8-00	27 X1.5	7X0.53	0.7	1.8	26.0	975	500
79055	7914-27C00250-U0BK8-00	27 X2.5	7X0.67	0.7	1.9	28.7	1300	500
79056	7914-27C00400-U0BK8-00	27 X4	7X0.85	0.7	2.1	32.4	1824	500
79057	7914-30C00150-U0BK8-00	30 X1.5	7X0.53	0.7	1.8	26.7	1049	500
79058	7914-30C00250-U0BK8-00	30 X2.5	7X0.67	0.7	1.9	29.6	1413	500
79059	7914-30C00400-U0BK8-00	30 X4	7X0.85	0.7	2.1	33.4	1987	500
79060	7914-37C00150-U0BK8-00	37 X1.5	7X0.53	0.7	1.9	28.7	1235	500
79061	7914-37C00250-U0BK8-00	37 X2.5	7X0.67	0.7	2.0	31.8	1674	500
79062	7914-37C00400-U0BK8-00	37 X4	7X0.85	0.7	2.2	36.0	2367	500
79063	7914-48C00150-U0BK8-00	48 X1.5	7X0.53	0.7	2.0	32.5	1539	500
79064	7914-48C00250-U0BK8-00	48 X2.5	7X0.67	0.7	2.1	36.1	2098	500