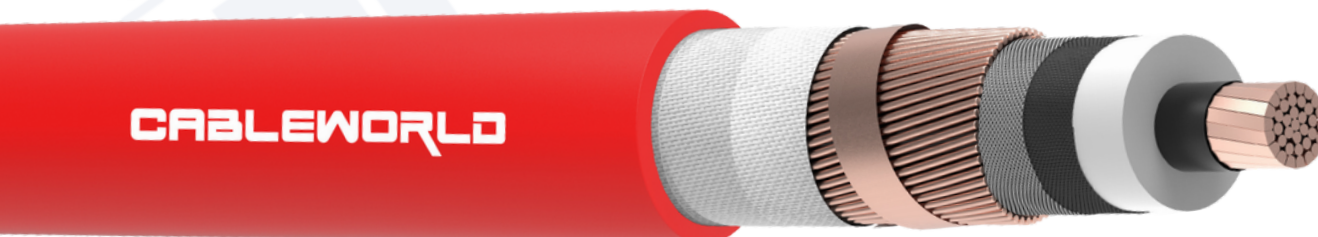
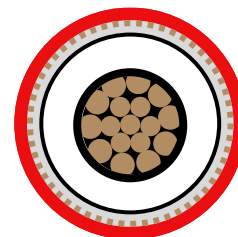




N2XSY - 12 / 20 (24) kV

XLPE PVC



DESCRIPTION

Conductor: Stranded Class 2 Bare Copper, **Conductor Screen:** Semi-conductive material (Bonded Type), **Insulation:** XLPE (Cross-Linked Polyethylene), **Insulation Screen:** Semi-conductive material (Strippable Type), **Metallic Screen:** Copper Wire Screen + Copper Tape open helix, **Sheath:** PVC (Polyvinyl Chloride), **Sheath Colour:** Red or Black.

APPLICATION

Medium voltage cable designed for power distribution networks, generation facilities, and industrial plant connections. Suitable for direct burial, as well as installation outdoors, indoors, and in cable ducts.

TECHNICAL DATA

Voltage Rating:	12/20 (24)kV
Max. Cond. Operating Temp.:	+90°C
Initial Temp. at S.C.C for Metallic Screen:	+80°C
Max. Cond. Temp. during S.C:	+250°C
Min. Bend. Radius:	15 x D
Flame Retardant:	IEC/EN 60332-1-2
UV-Resistant:	Yes
Standards:	IEC 60502-2, EN 60228
Laying conditions at trefoil formation are as below:	
Soil thermal resistivity: 120 °C.Cm/Watt	
Burial depth: 0.5 m	
Ground temperature: 15 °C	
Air temperature: 25 °C	
Frequency: 50 Hz	

TDS 1 OF 2



N2XSYP - 12 / 20 (24) kV

XLPE PVC

No. of Cores	Cond. Size	Nom. Screen CSA	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. OD	Nom. Weight
	mm ²	mm ²	mm	mm	mm	Kg/Km
1	50	16	5.5	1.8	26.0	1056
1	70	16	5.5	1.9	28.0	1301
1	95	16	5.5	1.9	29.3	1567
1	120	16	5.5	2.0	30.9	1840
1	150	25	5.5	2.0	32.7	2221
1	185	25	5.5	2.1	34.2	2572
1	240	25	5.5	2.2	36.8	3182
1	300	25	5.5	2.2	39.2	3764
1	400	35	5.5	2.3	42.2	4715
1	500	35	5.5	2.4	45.8	5748
1	630	35	5.5	2.5	50.7	7215
1	800	35	5.5	2.7	55.2	9072

ALL FIGURES QUOTED ARE APPROXIMATE

Cond. Size	Max. DC Resistance @ 20°C	Max AC Resistance @ Op. Temp. 50Hz	Capacitance	Charging Current	Dielectric Losses	Reactance @ 50Hz	Conductor SCC 1 sec	Copper Screen SCC 1 sec	Current Carrying Capacity A	
mm ²	Ω/Km	Ω/Km	μF/Km	A/Km	W/Km	Ω/Km	kA	kA	In Ground	In Free Air
50	0.387	0.494	0.184	0.693	33.24	0.133	7.15	3.2	234	245
70	0.268	0.342	0.209	0.787	37.78	0.126	10.01	3.2	284	309
95	0.193	0.247	0.227	0.855	41.03	0.121	13.585	3.2	337	378
120	0.153	0.196	0.246	0.928	44.52	0.117	17.16	3.2	384	436
150	0.124	0.159	0.268	1.01	48.48	0.112	21.45	5.0	428	491
185	0.0991	0.128	0.288	1.087	52.18	0.109	26.455	5.0	483	567
240	0.0754	0.098	0.321	1.21	58.08	0.104	34.32	5.0	553	669
300	0.0601	0.078	0.353	1.333	63.97	0.101	42.9	5.0	621	772
400	0.047	0.062	0.388	1.465	70.33	0.097	57.2	7.1	697	883
500	0.0366	0.049	0.434	1.638	78.63	0.094	71.5	7.1	783	1019
630	0.0283	0.039	0.498	1.876	90.08	0.092	90.09	7.1	866	1153
800	0.0221	0.032	0.553	2.084	100.05	0.089	114.4	7.1	945	1299

ALL FIGURES QUOTED ARE APPROXIMATE

E&OE. Manufacturers reserve the right to amend the specification without prior notice.

TDS 2 OF 2

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000001-2015