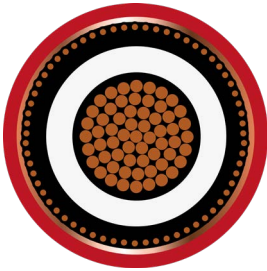




N2XSH 12/20 (24KV) POWER CABLE



APPLICATION

Medium voltage power cables for fixed installations in distribution networks and for connection to process machinery, Plant and to power generation equipment. Cables can be fixed on cable trays, within conduits or fixed to walls. This cable is not suitable for direct burial.

CONSTRUCTION

Conductor:	Class 2 Stranded Copper Conductor
Inner Screen:	Semi Conductive Compound
Insulation:	Cross Linked Polyethylene (XLPE)
Core Screen:	Semi Conductive Compound
Outer Screen:	Concentric Copper Wire & Copper Equalising Tape
Sheath:	Low Smoke Zero Halogen (LSZH)
Sheath Colour:	Red

CABLE STANDARDS

HD 620 S2 10c
IEC 60502-02
EN 60332-1-2
EN 60228

CHARACTERISTICS

Voltage Rating:	12/20 (24kV)
Temperature Limits:	-5°C to +90°C
Minimum Bending Radius:	As per cable manufacturer datasheet

SHOULD NOT BE INSTALLED AT TEMPERATURES BELOW 0°C



N2XSH 12/20 (24KV) POWER CABLE - CABLE DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	NUMBER OF CORES	COPPER WIRE SCREEN (MM)	OVERALL DIAMETER (MM)	WEIGHT (KG/KM)
22KVN2XSH1X35	35	1	16	27	1000
22KVN2XSH1X50	50	1	16	28	1200
22KVN2XSH1X70	70	1	16	30	1400
22KVN2XSH1X95	95	1	16	32	1700
22KVN2XSH1X120	120	1	16	33	1900
22KVN2XSH1X150	150	1	25	35	2300
22KVN2XSH1X185	185	1	25	36	2750
22KVN2XSH1X240	240	1	25	38	3300
22KVN2XSH1X300	300	1	25	41	4000
22KVN2XSH1X400	400	1	35	43	4800
22KVN2XSH1X500	500	1	35	46	6000
22KVN2XSH1X630	630	1	35	51	7300

N2XSH 12/20 (24KV) SINGLE CORE - ELECTRICAL CHARACTERISTICS

CONDUCTOR CROSS - SECTIONAL AREA	NOMINAL SHORT-CIRCUIT CURRENT FOR 1 SECOND OF CONDUCTOR KA	CONDUCTOR DC RESISTANCE AT 20°C OHM/KM	CONDUCTOR AC RESISTANCE BY MAX. TEMPERATURE OHM/KM	CURRENT CARRYING CAPACITY METHOD A		CONDUCTOR LOSSES IN THE GROUND KW/KM
				IN GROUND AT 20°C	IN AIR AT 30°C	
35	5.01	0.524	0.670	213	233	30.40
50	7.15	0.387	0.497	250	279	31.06
70	10.01	0.268	0.344	304	347	31.79
95	13.59	0.193	0.248	361	420	32.32
120	17.16	0.153	0.196	407	483	32.47
150	21.45	0.124	0.160	445	540	31.68
185	26.46	0.099	0.128	498	614	31.74
240	34.32	0.0754	0.0980	569	718	31.73
300	42.90	0.0601	0.0800	633	813	32.06
400	57.20	0.0470	0.0640	686	904	30.12
500	71.50	0.0366	0.0510	756	1011	29.15
630	90.09	0.0283	0.0420	848	1160	30.20

AIR AMBIENT TEMPERATURE: 30°C
 GROUND AMBIENT TEMPERATURE: 20°C
 CONDUCTOR OPERATING TEMPERATURE: 90°C
 DEPTH OF DUCT: 0.7M
 SOIL THERMAL RESISTIVITY: 1km/W

Cleveland Cable Company - Datasheet | 2

For more information contact:
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