



## N2XSEH 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 layer:** 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**



## N2XSEH 12/20 (24KV) POWER CABLE - CABLE DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM <sup>2</sup> )	NUMBER OF CORES	COPPER WIRE SCREEN (MM)	OVERALL DIAMETER (MM)	WEIGHT (KG/KM)
22KVN2XSEH3X35	35	3	16	52	3300
22KVN2XSEH3X50	50	3	16	55	3900
22KVN2XSEH3X70	70	3	16	60	4800
22KVN2XSEH3X95	95	3	16	63	5800
22KVN2XSEH3X120	120	3	16	66	6700
22KVN2XSEH3X150	150	3	25	70	8000
22KVN2XSEH3X185	185	3	25	73	9200
22KVN2XSEH3X240	240	3	25	80	11300
22KVN2XSEH3X300	300	3	25	84	13500
22KVN2XSEH3X400	400	3	35	90	16500

## N2XSEH 12/20 (24KV) 3 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	178	173	63.68
50	7.15	0.387	0.497	210	206	65.75
70	10.01	0.286	0.344	256	257	67.63
95	13.59	0.193	0.248	307	313	70.12
120	17.16	0.153	0.196	349	360	71.62
150	21.45	0.124	0.160	392	410	73.76
185	26.46	0.099	0.128	443	469	75.36
240	34.32	0.0754	0.0980	513	553	77.37
300	42.90	0.0601	0.0800	576	635	79.63
400	57.20	0.0470	0.0640	650	731	81.12

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