N2XS2Y 11KV Medium Voltage XLPE PE Power Cable



Description

Medium voltage power cables for fixed installations. Cables can be fixed on cable trays, within conduits or fixed to walls. This cable is not suitable for direct burial

Key Features



Voltage Rating 6/10 (12)kV



Minimum Bending Radius 15 x Overall Diameter



Flame Retardancy BS EN/IEC 60332-1-2



Temperature Limits

Temperature Range: -20°C to +60°C Conductor Operating Temperature: +90°C Short Circuit Temperature up to 5 sec: 250°C

Standards

- VDE 0276-620
- HD 620
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228

Construction

- Conductor: Class 2 stranded copper
- Conductor Screen: Bonded semi conductive XLPE
- Insulation: Cross Linked polyethylene (XLPE)
- Bedding: Semi Conductive Compound
- Metallic Screen: Copper Wires plus Copper tape
- Outer Sheath: Polyethylene (PE)
- Sheath Colour: Red or Black

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis



















N2XS2Y 11KV Medium Voltage XLPE PE Power Cable - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	CWS(mm)	Overall Diameter(mm)	Weight(Kg/Km)	
11KVN2XS2Y1X35	35	1	7/2.52	RM/16	32	1000	
11KVN2XS2Y1X50	50	1	19/1.78	RM/16	33	1150	
11KVN2XS2Y1X70	70	1	19/2.14	RM/16	35	1350	
11KVN2XS2Y1X95	95	1	19/2.52	RM/16	36	1600	
11KVN2XS2Y1X120	120	1	37/2.03	RM/16	38	1850	
11KVN2XS2Y1X150	150	1	37/2.03	RM/25	39	2250	
11KVN2XS2Y1X185	185	1	37/2.25	RM/25	41	2600	
11KVN2XS2Y1X240	240	1	37/2.52	RM/25	44	3150	
11KVN2XS2Y1X300	300	1	61/2.25	RM/25	46	3800	
11KVN2XS2Y1X400	400	1	61/2.25	RM/35	49	4750	
11KVN2XS2Y1X500	500	1	61/3.20	RM/35	52	5800	



















N2XS2Y CABLE - CURRENT CARRYING CAPACITY

CONDUCTOR CROSS - SECTIONAL AREA	REFERENCE METHOD A (ENCLOSED IN CONDUIT THERMALLY INSULATING WALL ETC)		REFERENCE METH	HOD B (ENCLOSED	REFE!	RENCE HOD C	REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)						
			TRUNKI		(CLIPPED	DIRECT)		TOUCHING	SPACED BY ONE DIAMETER				
	2 CABLES, SINGLE - PHASE AC OR DC	3 OR 4 CABLES, 3 PHASE AC	2 CABLES, SINGLE - PHASE AC OR DC	3 OR 4 CABLES, THREE PHASE AC OR DC	2 CABLES, SINGLE - PHASE AC OR DC FLAT AND TOUCHING	3 OR 4 CABLES, THREE - PHASE AC FLAT AND TOUCHING OR TREFOIL	AC OR DC FLAT	3 CABLES, THREE - PHASE AC FLAT	3 CABLES, THREE- PHASE AC TREFOIL	2 CABLES, SINGLE PHASE AC OR DC OR 3 CABLES THREE-PHASE AC FLAT			
										HORIZONTAL	VERTICAL		
(MM²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)		
25	80	73	101	89	114	104	131	114	110	146	130		
35	99	89	125	110	141	129	162	143	137	181	162		
50	119	108	151	134	182	167	196	174	167	219	197		
70	151	136	192	171	234	214	251	225	216	281	254		
95	182	164	232	207	284	261	304	275	264	341	311		
120	278	249	354	312	413	379	437	400	383	500	454		
150	318	285	393	342	476	436	504	464	444	577	527		
185	362	324	449	384	545	500	575	533	510	661	605		
240	424	380	528	450	644	590	679	634	607	781	719		
300	486	435	603	514	743	681	783	736	703	902	833		
400	-	-	683	584	868	793	940	868	823	1085	1008		
500	-	-	783	666	990	904	1083	998	946	1253	1169		
630	-	-	900	764	1130	1033	1254	1151	1088	1454	1362		
800	-	-	-	-	1288	1179	1358	1275	1214	1581	1485		
1000	-	-	-	-	1443	1323	1520	1436	1349	1775	1671		



















N2XS2Y CABLE - VOLTAGE DROP

CROSS SECTIONAL AREA	2 CABLES DC	2 CABLES SINGLE-PHASE AC MV/A/M					3 OR 4 CABLES THREE-PHASE AC MVAM									
		REFERENCE METHOD G (ON TRAY OR IN FREE AIR)						REFERENCE METHODS C, F AND G (CLIPPED DIRECT, ON TRAY OR IN FREE AIR)								
		CABLES TOUCHING			CABLES SPACED*			CABLES TOUCHING, TREFOIL			CABLES TOUCHING, FLAT			CABLES SPACED*, FLAT		
MM ²	MV/A/M	r	х	z	r	х	z	r	х	z	r	х	z	r	x	z
35	1.250	1.250	0.200	1.250	1.250	0.280	1.300	1.100	0.170	1.100	1.100	0.240	1.100	1.100	0.320	1.150
50	0.930	0.930	0.190	0.950	0.930	0.280	0.970	0.800	0.170	0.820	0.800	0.240	0.840	0.800	0.320	0.860
70	0.630	0.630	0.185	0.660	0.630	0.270	0.690	0.550	0.160	0.570	0.550	0.240	0.600	0.550	0.310	0.630
95	0.460	0.470	0.180	0.500	0.470	0.270	0.540	0.410	0.160	0.430	0.410	0.230	0. 470	0.400	0.310	0.510
120	0.360	0.370	0.180	0.410	0.370	0.260	0.450	0.320	0.150	0.360	0.320	0.230	0.400	0.320	0.300	0.440
150	0.320	0.320	0.165	0.360	0.320	0.250	0.410	0.280	0.140	0.310	0.280	0.165	0.320	0.280	0.240	0.370
185	0.250	0.260	0.165	0.300	0.250	0.250	0.360	0.220	0.140	0.260	0.220	0.165	0.280	0.220	0.240	0.330
240	0.190	0.200	0.160	0.250	0.195	0.250	0.310	0.170	0.140	0.220	0.170	0.165	0.240	0.170	0.240	0.290
300	0.155	0.160	0.160	0.220	0.155	0.250	0.290	0.140	0.140	0.195	0.135	0.160	0.210	0.135	0.240	0.270
500	0.093	0.125	0.170	0.210	0.165	0.240	0.290	0.105	0.145	0.180	0.145	0.200	0.250	0.190	0.240	0.310
630	0.073	0.105	0.165	0.195	0.150	0.230	0.270	0.092	0.145	0.170	0.135	0.195	0.240	0.175	0.230	0.290

- r = Resistive Component
- x = Reactive Component
- z = Impedance Value

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