NA2XS(F)2Y XLPE MDPE 8.7/15 (17.5) kV Cable - 50mm² to 1000mm²



Description

Medium voltage power cables with aluminium Conductor for distribution networks. This cable is used extensively in the renewables and datacentre sectors. NA2XS2Y cable is suitable for external installation. Cables can be fixed on cable trays, within conduits or fixed to walls and is suitable for burial in ducts. The cable has two waterblocking layers and a UV Resistant outer sheath.

Key Features

Voltage Rating
8.7/15 (18) kV

Minimum Bending Radius
15 x Overall Diameter

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

Standards

- BS EN 60332-1-2
- UV Resistant: ISO 4892-3
- IEC 60228
- IEC 60502-2
- IEC 60332-1-2

Construction

- **Conductor**: Class 2 Stranded Aluminium Conductor
- **Conductor Screen**: Semi-Conductive material
- **Insulation**: Cross Linked polyethylene (XLPE)
- **Insulation Screen**: Semi-Conductive XLPE
- **Longditudinal Waterblocking**: Semi-conductive swellable tape
- **Metallic Screen**: Copper Wires plus Copper tape
- **Tape**: Longditudinal Water Blocking Tape
- **Outer Sheath**: Medium Density Polyethylene (MDPE)
- **Sheath Colour**: Black

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

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.

ISO/IEC 17025 Accredited Testing Laboratory

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

NA2XS(F)2Y XLPE MDPE 8.7/15 (17.5) kV Cable - 50mm² to 1000mm² - Dimensions

Reference	Conductor Size (mm2)	Nominal Conductor Diameter	Insulation Thickness (mm)	CWS(mm)	Sheath Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
8/15NA2XS(F)2Y1X 50	50	8.5	4.0	RM/16	1.8	28.2	745
8/15NA2XS(F)2Y1X 70	70	10.0	4.0	RM/25	1.8	30.0	910
8/15NA2XS(F)2Y1X 95	95	11.5	4.0	RM/35	1.8	31.5	1125
8/15NA2XS(F)2Y1X 120	120	13.0	4.0	RM/50	2.0	33.0	1365
8/15NA2XS(F)2Y1X 150	150	14.5	4.5	RM/50	2.0	34.5	1475
8/15NA2XS(F)2Y1X 185	185	16	4.5	RM/50	2.2	36.4	1610
8/15NA2XS(F)2Y1X 240	240	18.5	4.5	RM/50	2.2	38.2	1825
8/15NA2XS(F)2Y1X 300	300	20.5	4.5	RM/50	2.3	40.5	2045
8/15NA2XS(F)2Y1X 400	400	23.5	4.5	RM/50	2.3	43.5	2365
8/15NA2XS(F)2Y1X 630	630	30.0	5.0	RM/50	2.6	50.5	3260
8/15NA2XS(F)2Y1X 800	800	33.5	5.0	RM/50	2.7	55.0	3865
8/15NA2XS(F)2Y1X 1000	1000	38.5	5.0	RM/50	2.8	60.0	4595

N2XS2Y CABLE - CURRENT CARRYING CAPACITY

CONDUCTOR CROSS – SECTIONAL AREA	REFERENCE METHOD A (ENCLOSED IN CONDUIT THERMALLY INSULATING WALL ETC)		REFERENCE METHOD B (ENCLOSED IN CONDUIT ON A WALL OR IN TRUNKING ETC)		REFERENCE METHOD C (CLIPPED DIRECT)		REFERENCE METHOD F (IN FREE AIR ON A PERFORATED CABLE TRAY HORIZONTAL / VERTICAL)				
							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	2 CABLES, SINGLE - PHASE 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
(MM^2)	(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

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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 MVA/M								
		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		
MM²	MV/A/M	r	x	z	r	x	z	r	x	z	r	x	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

Conductor Operating Temperature: 90°C

r = Resistive Component

x = Reactive Component

z = Impedance Value

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