



• Application

These medium voltage XLPE electrical cables, compliant with DIN VDE 0276-620 standards, are tailored for distribution networks, plant connections, and power generation units. They are suitable for direct burial in the ground, as well as indoor, outdoor, and cable duct installations. Available types such as N2XS_Y, NA2XS_Y, N2XS_{2Y}, NA2XS_{2Y}, N2XS(F)2Y, and NA2XS(F)2Y cater to various application needs.

• Performance

Voltage rating $U_0/U(\text{Um})$: 6/10(12)kV

Test Voltage: 21kV

Mechanical performance:

Minimum bending radius of single core: 20 x overall diameter

Minimum bending radius of multi cores: 15 x overall diameter

Thermal performance:

Maximum operating temperature: 90°C

Maximum short-circuit temperature: 250°C (Max. 5s)

Minimum service temperature: -10°C

Fire performance:

Flame retardant according to IEC/EN 60332-1-2 standard

Reduced emission of halogens chlorine <15%

• Construction

Conductor: Class 2 copper or aluminum conductor

Inner semi-conductive layer: Semi-conducting material

Insulation: XLPE

Outer semi-conductive layer: Semi-conducting material

Metallic Screen: Concentric copper wires

Waterblocking - Longitudinal (optional): Swellable tape

Outer Sheath: PVC (polyvinyl chloride) or PE (polyethylene)

Sheath Colour: Red (PVC), black (PE), or other available colors as per request

• Specification

-DIN VDE 0276-620, HD 620, IEC/EN 60228, IEC/EN 60502-2

-Flame retardant according to IEC/EN 60332-1-2 standard

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Physical Performance						
No. of Cores	Nominal Cross Section Area		Nominal Weight		Nominal Overall Dia.	
	Conductor	Copper Wire Screen	Copper	Aluminum	Copper	Aluminum
-	mm ²	mm ²	kg/km	kg/km	mm	mm
1	35	RM/16	900	700	23	28
1	50	RM/16	1050	750	24	29
1	70	RM/16	1300	850	26	31
1	95	RM/16	1600	950	27	32
1	120	RM/16	1850	1050	29	34
1	150	RM/25	2200	1300	30	35
1	185	RM/25	2600	1400	32	37
1	240	RM/25	3150	1650	34	39
1	300	RM/25	3750	1850	36	40
1	400	RM/35	4650	2300	40	45
1	500	RM/35	5750	-	43	-

Electrical Performance						
No. of Cores	Nominal Cross Section Area		Current Carrying Capacity (Copper Conductor)		Current Carrying Capacity (Aluminum Conductor)	
	Conductor	Copper Wire Screen	in ground	in air	in ground	in air
-	mm ²	mm ²	A	A	A	A
1	35	RM/16	187	197	145	153
1	50	RM/16	220	236	171	183
1	70	RM/16	268	294	208	228
1	95	RM/16	320	358	248	278
1	120	RM/16	363	413	283	321
1	150	RM/25	405	468	315	364
1	185	RM/25	456	535	357	418
1	240	RM/25	526	631	413	494
1	300	RM/25	591	722	466	568
1	400	RM/35	662	827	529	660
1	500	RM/35	739	921	-	-