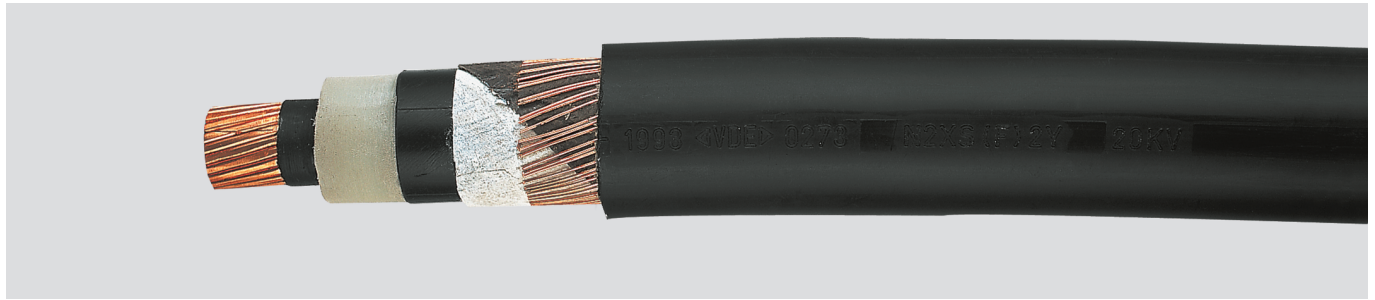


N2XS(FL)2Y 6/10 kV, 12/20 kV, 18/30 kV

XLPE-insulated, Cu-conductor, single core, screened, longitudinally and crosswise watertight, PE-sheath



Technical data

- XLPE-insulated power cables acc. to DIN VDE 0276 part 620, HD 620 S2 and IEC 60502
- **Temperature range**
during installation up to -20°C
- **Operating temperature**
max. +90°C
- **Short circuit temperature**
+250°C (short circuit duration max. 5 s)
- **Nominal voltage**
U₀/U 6/10 kV, 12/20 kV, 18/30 kV
- **Operating voltage**, 50 Hz
for 6/10 kV = max. 12 kV
for 12/20 kV = max. 24 kV
for 18/30 kV = max. 36 kV
- **Test voltage**
for 6/10 kV = 21 kV
for 12/20 kV = 42 kV
for 18/30 kV = 63 kV
- **Minimum bending radius**
15x cable Ø
- **Power ratings**
see "Technical Informations"

Cable structure

- Bare copper conductor, to DIN VDE 0295 cl.2, multi-wire, BS 6360 cl.2, IEC 60228 cl.2
- Inner semi-conducting coating
- Core insulation of cross-linked polyethylene (XLPE), compound type DIX8 to HD 620 S2
- Outer conductive layer extruded and permanently welded with the core insulation
- Longitudinally watertight, conductive wrapping
- Screen: Braiding of copper wires with one or two tapes applied helically
- Longitudinally watertight wrapping
- Aluminium tape spliced with PE sheath
- Outer sheath of PE compound type DMP2 to HD 620 S2
- Sheath colour: black

Properties

- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers
- **Installation notes**
To guarantee an optimum on operating reliability the extruded semi-conductive layer is spliced with the insulation for long duration. For this reason we recommend a peeling tool for installation

Note

- rm = round conductor, multi-wire
- Further types and dimensions on request.
- AWG sizes are approximate equivalent values. The actual cross section is in mm².

Application

Installation primarily for power utility grids and in cable ducts, outdoors, underground and in water, and also on pallets for manufacturing plants, switchgear and power stations. The resistant Al/PE-laminated sheathing acts as a cross water barrier. It inhibits the diffusion of water. In case of sheathing damage, water impact is contained at the flaw. The cable can be severely mechanically stressed during installation and operation. The PE sheathing is not flame-retardant to DIN EN 60332-1-2. The internal conductive layer between conductor and VPE insulation and the adherent external conductive layer on the VPE insulation guarantees a design with high operational safety and no partial discharge.

Part no.	No. cores x cross-sec. mm ²	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm ²	Sheath thickness Nominal value mm	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
33054	1 x 35 rm / 16	12	6 / 10	3,4	16	2,5	28,0	518,0	860,0	2
33055	1 x 50 rm / 16	12	6 / 10	3,4	16	2,5	30,0	662,0	1000,0	1
33056	1 x 70 rm / 16	12	6 / 10	3,4	16	2,5	32,0	854,0	1350,0	2/0
33057	1 x 95 rm / 16	12	6 / 10	3,4	16	2,5	33,0	1094,0	1680,0	3/0
33058	1 x 120 rm / 16	12	6 / 10	3,4	16	2,5	34,0	1334,0	2070,0	4/0
33059	1 x 150 rm / 25	12	6 / 10	3,4	25	2,5	36,0	1723,0	2350,0	300 kcmil
33060	1 x 185 rm / 25	12	6 / 10	3,4	25	2,5	38,0	2059,0	2710,0	350 kcmil
33061	1 x 240 rm / 25	12	6 / 10	3,4	25	2,5	40,0	2587,0	3260,0	500 kcmil
38049	1 x 300 rm / 25	12	6 / 10	3,4	25	2,5	42,0	3163,0	3850,0	600 kcmil
38050	1 x 400 rm / 35	12	6 / 10	3,4	35	2,5	46,0	4234,0	4740,0	750 kcmil
38051	1 x 500 rm / 35	12	6 / 10	3,4	35	2,5	49,0	5194,0	5800,0	1000 kcmil
38052	1 x 630 rm / 35	12	6 / 10	3,4	35	2,5	51,0	6442,0	7120,0	1250 kcmil
38053	1 x 35 rm / 16	24	12 / 20	5,5	16	2,5	33,0	518,0	1020,0	2
33066	1 x 50 rm / 16	24	12 / 20	5,5	16	2,5	35,0	662,0	1170,0	1
33067	1 x 70 rm / 16	24	12 / 20	5,5	16	2,5	36,0	854,0	1470,0	2/0
33083	1 x 95 rm / 16	24	12 / 20	5,5	16	2,5	38,0	1094,0	1860,0	3/0
33069	1 x 120 rm / 16	24	12 / 20	5,5	16	2,5	39,0	1334,0	2260,0	4/0
33070	1 x 150 rm / 25	24	12 / 20	5,5	25	2,5	41,0	1723,0	2550,0	300 kcmil
33071	1 x 185 rm / 25	24	12 / 20	5,5	25	2,5	43,0	2059,0	2920,0	350 kcmil
33072	1 x 240 rm / 25	24	12 / 20	5,5	25	2,5	45,0	2587,0	3490,0	500 kcmil
33073	1 x 300 rm / 25	24	12 / 20	5,5	25	2,5	47,0	3163,0	4090,0	600 kcmil
33074	1 x 400 rm / 35	24	12 / 20	5,5	35	2,5	50,0	4234,0	5010,0	750 kcmil
33075	1 x 500 rm / 35	24	12 / 20	5,5	35	2,5	54,0	5194,0	6090,0	1000 kcmil
38054	1 x 630 rm / 35	24	12 / 20	5,5	35	2,5	55,0	6442,0	7440,0	1250 kcmil

Continuation ►

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Part no.	No.cores x cross-sec. mm ²	Operation voltage max.	Nominal voltage kV	Insulation thickness mm	Screen cross-sec. mm ²	Sheath thickness Nominal value mm	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
34312	1 x 50 mm / 16	36	18 / 30	8	16	2,5	36,0	662,0	1400,0	1
38055	1 x 70 mm / 16	36	18 / 30	8	16	2,5	40,0	854,0	1710,0	2/0
38056	1 x 95 mm / 16	36	18 / 30	8	16	2,5	42,0	1094,0	2110,0	3/0
38057	1 x 120 mm / 16	36	18 / 30	8	16	2,5	44,0	1334,0	2520,0	4/0
38058	1 x 150 mm / 25	36	18 / 30	8	25	2,5	45,0	1723,0	2830,0	300 kcmil
34313	1 x 185 mm / 25	36	18 / 30	8	25	2,5	47,0	2059,0	3210,0	350 kcmil
38059	1 x 240 mm / 25	36	18 / 30	8	25	2,5	49,0	2587,0	3790,0	500 kcmil
34314	1 x 300 mm / 25	36	18 / 30	8	25	2,5	52,0	3163,0	4430,0	600 kcmil
34315	1 x 400 mm / 35	36	18 / 30	8	35	2,5	55,0	4234,0	5390,0	750 kcmil
38060	1 x 500 mm / 35	36	18 / 30	8	35	2,5	58,0	5194,0	6500,0	1000 kcmil
38061	1 x 630 mm / 35	36	18 / 30	8	35	2,5	60,0	6442,0	7870,0	1250 kcmil

Dimensions and specifications may be changed without prior notice. (RQ03)