

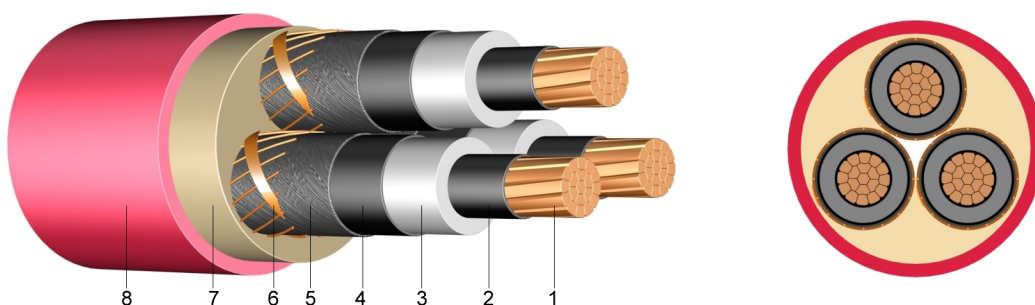
N2XSEY

Medium voltage cable, 6/10 kV
+90 °C service temperature, three core, PVC sheath
DIN VDE 0276-620 and IEC 60502-2

Application

Medium voltage cable for power stations, industrial applications and distribution networks. The good installation properties of this cable make installation easy, even on challenging routes and in difficult conditions. For fixed installation indoors and outdoors, in ground, in water and in cable ducts where mechanical damage is not expected. Outdoor laying only permitted when protected from direct sunlight and other external impacts.

Construction



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|---------------------------------|--|
| 1. Conductor: | Copper conductor, bare, stranded (class 2) |
| 2. Inner semi-conductive layer: | Extruded semi-conductive material |
| 3. Insulation: | XLPE (cross-linked polyethylene) |
| 4. Outer semi-conductive layer: | Extruded semi-conductive material |
| 5. Separator under screen: | Semi-conductive tape |
| 6. Screen: | Copper wires with helix copper tape |
| 7. Core covering: | Tape or filler |
| 8. Outer sheath: | PVC, red |

Technical information

Rated voltage	U_0/U	6/10 kV
Max. permitted operating voltage	U_{max} AC	12 kV
Test voltage	AC	21 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max. 5 sec)
Operating temperature	fixed installed	-20 °C to 70 °C
Temperature during installation		-5 °C to 70 °C
Min. bending radius mm	fixed installed	15 x outer diameter in mm
Max. tensile load on the conductor		50 N / mm ²

Safety parameters

Flame spread	single cable	IEC 60332-1
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N° of cores and cross section mm ²	Insulation thickness approx. mm	Sheath thickness approx. mm	Outer diameter approx. mm	Current carrying capacity in ground ¹ A	Current carrying capacity in air ² A	Copper index approx. kg/km	Weight approx. kg/km
6/10 kV							
3 x 35 rm/16	3,4	2,3	49	187	178	1209	3300
3 x 50 rm/16	3,4	2,4	52	213	213	1671	3900
3 x 70 rm/16	3,4	2,5	55	261	265	2247	4700
3 x 95 rm/16	3,4	2,7	60	312	322	2994	5850
3 x 120 rm/16	3,4	2,8	64	355	370	3714	6800
3 x 150 rm/25	3,4	2,9	67	399	420	4638	7950
3 x 185 rm/25	3,4	3,0	71	451	481	5646	9300
3 x 240 rm/25	3,4	3,2	77	523	566	7272	11550
3 x 300 rm/25	3,4	3,3	80	590	648	9160	12200

Current carrying capacity: closed trefoil formation

¹ Ground temperature 20 °C

² Air temperature 30 °C

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.