

NYFGY

Medium voltage cable, 3,6/6 kV
+70 °C service temperature, three core, flat steel wire armoured, PVC sheath
DIN VDE 0271

Application

Armoured medium voltage cable for power stations, industrial applications and distribution networks where additional protection against mechanical damage is required during installation, laying and operation.
For fixed installation indoors and outdoors, in ground, in water, in concrete and in cable ducts.

Construction



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|-------------------|--|
| 1. Conductor: | Copper conductor, bare, stranded (class 2) |
| 2. Insulation: | PVC |
| 3. Core covering: | PVC |
| 4. Armoring: | Galvanized steel wires, flat |
| 5. Outer sheath: | PVC, red |

Technical information

Rated voltage	U ₀ /U	3,6/6 kV
Test voltage		11 kV
Max. permissible temperature at conductor		70 °C
Max. short circuit temperature of the conductor		160 °C (max. 5 sec)
Operating temperature	fixed installed	-30 °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 strength during installation		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	Outer diameter approx. mm	Current carrying capacity in ground ¹ A	Current carrying capacity in air ² A	Weight approx. kg/km
3 x 35 sm	37	157	131	2450
3 x 50 sm	37,8	185	159	2970
3 x 70 sm	40,1	226	202	3790
3 x 120 sm	43,1	275	244	4625
3 x 120 sm	46,1	313	282	5450
3 x 150 sm	49,2	352	316	6410
3 x 185 sm	52,2	397	362	7670
3 x 240 sm	56,5	460	427	9420

Current carrying capacity: closed trefoil formation

¹ Ground temperature 20 °C

² Air temperature 30 °C

sm: sector shaped conductors, stranded

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