

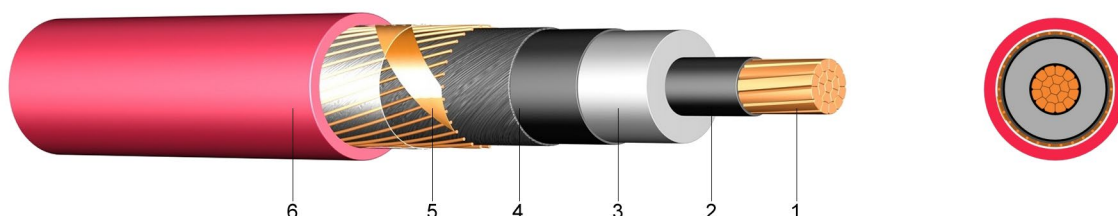
RG26H1M16 105 °C

Medium voltage cable, 12/20 kV or 18/30 kV
+105 °C service temperature, low smoke, zero halogen, fire retardant,
UNEL 35334, HD620, CEI 20-13 and IEC 60502-2

Application

Zero halogen medium voltage cable with improved fire characteristics for power stations, industrial applications and distribution networks. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. 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. To simplify laying, these cables can also be supplied stranded.

Construction



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|---------------------------------|---|
| 1. Conductor: | Copper conductor, bare, stranded (class 2) |
| 2. Inner semi-conductive layer: | Extruded semi-conductive material |
| 3. Insulation: | Elastomeric mixture (G26 Type) |
| 4. Outer semi-conductive layer: | Extruded cold strippable semi-conductive material |
| 5. Screen: | Copper wires with helix copper tape (+/- 6mm ² , other cross section on request) |
| Filler: | Non hygroscopic filler |
| 6. Outer sheath: | Halogen free compound, red (M16 Type) |

Technical information

Rated voltage	U ₀ /U	12/20 kV	18/30 kV
Max. permitted operating voltage	U _{max} AC	24 kV	36 kV
Test voltage	AC	42 kV	63 kV
Max. permissible temperature at conductor		105 °C	
Max. short circuit temperature of the conductor		300 °C (max. 5 sec)	
Min. temperature during installation		-5 °C	
Min. bending radius mm	fixed installation	12 x outer diameter in mm	
Max. tensile load on the conductor		60 N / mm ²	

Safety parameters

Reaction to fire	single cable	EN 50399 Cca – s1b, d1, a1
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Additional parameters

Underground installation	AD7 (immersion) in accordance with Art. 4.3.11 of IEC 11-17
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N° of cores and cross section	Conductor diameter	Insulation diameter	Outer diameter	Current carrying capacity in air		Current carrying capacity in ground ¹		Weight approx. kg/km
				Trefoil	Flat	Trefoil	Flat	
				A	A	A	A	
mm²	approx. mm	approx. mm	approx. mm					
12/20 kV								
1 x 35 mm	7,0	17	31,2	212	248	199	206	1250
1 x 50 mm	8,1	18	31,7	253	297	235	244	1300
1 x 70 mm	9,9	19	32,8	316	373	288	299	1570
1 x 95 mm	11,5	21	34,5	385	455	345	358	1870
1 x 120 mm	12,9	22	36,4	445	525	392	406	2190
1 x 150 mm	14,2	24	37,0	506	595	440	454	2500
1 x 185 mm	15,9	25	39,5	581	680	496	512	2960
1 x 240 mm	18,3	28	42,4	688	802	574	591	3580
1 x 300 mm	20,7	31	46,0	790	916	647	664	4280
1 x 400 mm	23,5	33	49,3	914	1049	730	756	5260
1 x 500 mm	26,5	37	53,5	1058	1208	828	848	6460
1 x 630 mm	31,2	40	59,0	1219	1379	927	940	8100
18/30 kV								
1 x 35 mm	7,0	25,6	31,2	215	248	200	206	1830
1 x 50 mm	8,1	25	31,7	256	290	231	240	1890
1 x 70 mm	9,9	25	32,8	319	360	284	294	2070
1 x 95 mm	11,5	26	34,5	389	441	339	351	2340
1 x 120 mm	12,9	27	36,4	449	507	387	400	2590
1 x 150 mm	14,2	28,2	37,0	506	576	432	448	2920
1 x 185 mm	15,9	29,3	39,5	582	661	489	507	3300
1 x 240 mm	18,3	31	42,4	689	775	567	583	3950
1 x 300 mm	20,7	34,4	46,0	790	884	640	654	4720
1 x 400 mm	23,5	37	49,3	913	1020	725	740	5670
1 x 500 mm	26,5	41	53,5	1056	1174	820	835	6930
1 x 630 mm	31,2	45	59,0	1210	1334	923	932	8680

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	Max. electrical resistance at 20°C	Conductor apparent resistance at 105°C and 50Hz		Phase reactance Ω/km		Capacity at 50Hz
	Ω/km	Trefoil	Flat	Trefoil	Flat	μF/km
12/20 kV						
1 x 35 rm	0,524	0,669	0,669	0,13	0,19	0,20
1 x 50 rm	0,387	0,517	0,517	0,13	0,18	0,22
1 x 70 rm	0,268	0,358	0,358	0,12	0,18	0,25
1 x 95 rm	0,193	0,258	0,258	0,11	0,17	0,29
1 x 120 rm	0,153	0,205	0,205	0,11	0,17	0,31
1 x 150 rm	0,124	0,166	0,166	0,11	0,16	0,34
1 x 185 rm	0,0991	0,134	0,134	0,10	0,16	0,37
1 x 240 rm	0,0754	0,102	0,102	0,10	0,16	0,41
1 x 300 rm	0,0601	0,083	0,082	0,095	0,15	0,46
1 x 400 rm	0,0470	0,066	0,065	0,093	0,15	0,49
1 x 500 rm	0,0366	0,053	0,052	0,090	0,15	0,56
1 x 630 rm	0,0283	0,043	0,041	0,087	0,14	0,62
18/30 kV						
1 x 35 rm	0,524	0,665	0,665	0,13	0,20	0,13
1 x 50 rm	0,387	0,516	0,516	0,14	0,20	0,15
1 x 70 rm	0,268	0,358	0,358	0,13	0,19	0,17
1 x 95 rm	0,193	0,258	0,258	0,12	0,18	0,19
1 x 120 rm	0,153	0,205	0,205	0,12	0,18	0,22
1 x 150 rm	0,124	0,166	0,166	0,11	0,17	0,24
1 x 185 rm	0,0991	0,133	0,133	0,11	0,17	0,27
1 x 240 rm	0,0754	0,102	0,102	0,10	0,16	0,30
1 x 300 rm	0,0601	0,082	0,082	0,10	0,16	0,34
1 x 400 rm	0,0470	0,065	0,065	0,099	0,16	0,38
1 x 500 rm	0,0366	0,053	0,052	0,095	0,15	0,42
1 x 630 rm	0,0283	0,043	0,041	0,093	0,15	0,47

Current carrying capacity: closed trefoil formation

¹ Ground temperature 20 °C; laying depth 0,8 m; soil thermal resistivity 1,0 Km/W

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