Kabel und Leitungen · fils et câbles · kabels en draden · cables and wires

# XLPE/LSZH/SWA/LSZH

Power and control cable, 0,6/1 kV
+90 °C service temperature, steel wire armoured, low smoke, zero halogen, fire retardant
BS 6724 and IEC 60502-1

## Application

Armoured, zero halogen power cable with improved fire characteristics for application where additional protection against mechanical damage is required. Zero halogen cables are suitable for installation in environments where smoke and toxic fumes may threaten life or valuable equipment. For fixed installation indoors and outdoors.

## Construction

| | | |
|---|---|---|
| 1. | Conductor: | Copper conductor, bare, stranded (class 2) |
| 2. | Insulation: | XLPE |
| | Core identification: | According to HD 308 S2 |
| | | >5 conductors: white cores with black numbers |
| 3. | Core covering: | Halogen free compound |
| 4. | Armoring: | Galvanized steel wires |
| 5. | Outer sheath: | Halogen free compound, black |

## Technical information

| | | | |
|---|---|---|---|
| Rated voltage | | $U_0/U$ | 0,6/1 kV |
| Max. permissible temperature at conductor | | | 90 °C |
| Max. short circuit temperature of the conductor | | | 250 °C (max. 5 sec) |
| Operating temperature | | fixed installation | -20 °C to +70 °C |
| Min. temperature during installation | | | -5 °C |
| Min. bending radius mm | | fixed installation | 6 x outer diameter in mm (1,5 mm² to 16 mm²) |
| | | | 8 x outer diameter in mm (25 mm² and above) |
| Safety parameters | | | |
| Flame spread | | single cable | IEC 60332-1 |
| | | bunched cables | IEC 60332-3-24 |
| | on request | bunched cables | IEC 60332-3-22 |
| No corrosive gases | | | IEC 60754-2 |
| Low smoke density | | | IEC 61034-1 |
| Additional parameters | | | |
| UV resistant | | | If you are considering installing in high UV exposure and/or high/low ambient temperatures i.e. desert/arctic conditions then special sheathing may be required. |

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| N° of cores and cross section mm² | Insulation thickness approx. mm | Outer diameter approx. mm | Weight approx. kg/km |
|---|---|---|---|
| 2 x 1,5 RM | 0,6 | 12,3 | 300 |
| 2 x 2,5 RM | 0,7 | 13,6 | 360 |
| 2 x 4 RM | 0,7 | 14,7 | 420 |
| 2 x 6 RM | 0,7 | 15,9 | 500 |
| 2 x 10 RM | 0,7 | 18,0 | 650 |
| 2 x 16 RM | 0,7 | 20,0 | 910 |
| 2 x 25 RM | 0,9 | 24,1 | 1060 |
| | | | |
| 3 x 1,5 RM | 0,6 | 12,6 | 330 |
| 3 x 2,5 RM | 0,7 | 14,1 | 390 |
| 3 x 4 RM | 0,7 | 15,3 | 464 |
| 3 x 6 RM | 0,7 | 16,6 | 568 |
| 3 x 10 RM | 0,7 | 19,5 | 866 |
| 3 x 16 RM | 0,7 | 21,6 | 1152 |
| 3 x 25 RM | 0,9 | 23,6 | 1800 |
| 3 x 35 RM | 0,9 | 25,7 | 2230 |
| 3 x 50 RM | 1,0 | 28,5 | 2490 |
| 3 x 70 RM | 1,1 | 32,2 | 3290 |
| 3 x 95 RM | 1,1 | 37,0 | 4440 |
| 3 x 120 RM | 1,2 | 40,4 | 5470 |
| 3 x 150 RM | 1,4 | 45,5 | 6930 |
| 3 x 185 RM | 1,6 | 49,8 | 8350 |
| 3 x 240 RM | 1,7 | 55,1 | 10400 |
| 4 x 1,5 RM | 0,6 | 13,3 | 365 |
| 4 x 2,5 RM | 0,7 | 15,0 | 438 |
| 4 x 4 RM | 0,7 | 16,4 | 532 |
| 4 x 6 RM | 0,7 | 18,7 | 764 |
| 4 x 10 RM | 0,7 | 21,1 | 1013 |
| 4 x 16 RM | 0,7 | 23,4 | 1360 |
| 4 x 25 RM | 0,9 | 26,1 | 2160 |
| 4 x 35 RM | 0,9 | 28,6 | 2690 |
| 4 x 50 SM | 1,0 | 32,0 | 3130 |
| 4 x 70 SM | 1,1 | 37,7 | 4500 |
| 4 x 95 SM | 1,1 | 41,7 | 5600 |
| 4 x 120 SM | 1,2 | 47,1 | 7400 |
| 4 x 150 SM | 1,4 | 51,4 | 8780 |
| 4 x 185 SM | 1,6 | 56,6 | 10630 |
| 4 x 240 SM | 1,7 | 63,0 | 13390 |

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| N° of cores and cross section mm² | Insulation thickness approx. mm | Outer diameter approx. mm | Weight approx. kg/km |
|---|---|---|---|
| 5 x 1,5 RM | 0,6 | 14,3 | 410 |
| 5 x 2,5 RM | 0,7 | 16,1 | 470 |
| 5 x 4 RM | 0,7 | 17,8 | 710 |
| 5 x 6 RM | 0,7 | 20,0 | 876 |
| 5 x 10 RM | 0,7 | 22,9 | 1165 |
| 5 x 16 RM | 0,7 | 26,6 | 1742 |
| 5 x 25 RM | 0,9 | 31,5 | 2323 |
| 5 x 35 RM | 0,9 | 34,8 | 2932 |
| | | | |
| 7 x 1,5 RM | 0,6 | 15,2 | 470 |
| 7 x 2,5 RM | 0,7 | 17,1 | 600 |
| 7 x 4 RM | 0,7 | 19,1 | 881 |
| | | | |
| 12 x 1,5 RM | 0,6 | 19,4 | 780 |
| 12 x 2,5 RM | 0,7 | 22,4 | 1000 |
| 19 x 1,5 RM | 0,6 | 22,2 | 1000 |
| 19 x 2,5 RM | 0,7 | 26,6 | 1540 |
| 27 x 1,5 RM | 0,6 | 26,7 | 1500 |
| 27 x 2,5 RM | 0,7 | 30,7 | 1950 |
| 37 x 1,5 RM | 0,6 | 29,0 | 1800 |
| 37 x 2,5 RM | 0,7 | 33,8 | 2350 |

RM = round stranded, class 2
SM = sector-shaped, stranded, class 2

The above mentioned cross sections also exist with green/yellow core (except 2 cores).

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

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