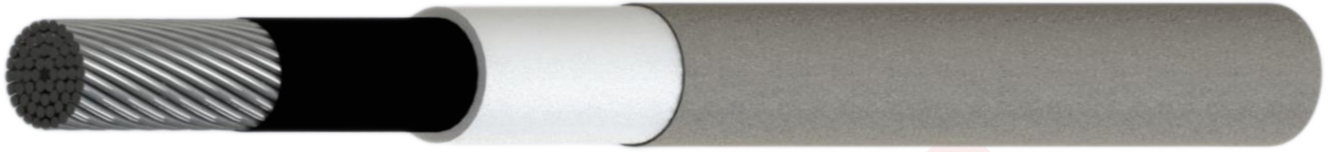


SIF/POL 7.2kV UL STYLE 3663

Flexible single core silicone insulated cable
with external impregnated polyester fiber braiding



TECHNICAL DATA

Power cables acc. to UL-Std 758 (AWM) Style 3663,
CSA-Std. 22.2 No. 210

| | |
|------------------------------|------------------------------|
| Operating temperature | -55°C to +180°C Peaks: 210°C |
| Operating voltage | 6,6-7,2 kV |
| Test voltage | 20 kV |
| Breakdown voltage | 30 kV |
| Minimum bending radius fixed | 10 x Outer-Ø |

CABLE STRUCTURE

- Tinned copper conductor according to ASTM B2, ASTM B33
- Core insulation: Silicone
- Acrylic impregnated polyester braid
- Core colour: grey

PROPERTIES

- Halogen-free
- resistant to: UV radiation, weathering effects

TESTS

- halogen-free acc. to EN 60754-1 / IEC 60754-1
- corrosiveness of combustion gases acc. EN 60754-2 / IEC 60754-2
- flame-retardant acc. to UL VW-1, CSA FT1
- smoke density acc. to EN 61034-1+2 / IEC 61034-1+2

APPLICATION

For internal wiring and in protected locations at high temperature limited by maximum conductor temperature in normal use of 180°C. Suitable to be connected directly and permanently to a coil winding, motor or other component of electrical devices.

For use in: lighting, furnaces, ovens, electric resistor applications, panel wiring, Industry, electronics, low smoke halogen free, indoor protected installations, flexible applications, ship & railroad construction and heavy duty mobile use.

NOTES

- Solid conductor versions not for flexible applications.

| Part no. | AWG approx. | Outer Ø mm nominal | Outer Ø mm min. | Outer Ø mm max. | Max. linear Resistance @20° C (Ω/km) | Current carrying capacity* A | Cu-weight kg/km | Weight kg/km approx. |
|----------|-------------|--------------------|-----------------|-----------------|--------------------------------------|------------------------------|-----------------|----------------------|
| 18000823 | 14 | 7,13 | 6,93 | 7,33 | 8,96 | 61 | 20,7 | 69,33 |
| 18000824 | 12 | 8,07 | 7,87 | 8,27 | 5,64 | 81 | 33,0 | 93,17 |
| 18000825 | 10 | 8,73 | 8,53 | 8,93 | 3,546 | 106 | 51,6 | 121,57 |
| 18000826 | 8 | 9,68 | 9,48 | 9,88 | 2,23 | 143 | 80,6 | 165,51 |
| 18000827 | 6 | 10,79 | 10,49 | 11,09 | 1,403 | 206 | 125,0 | 224,09 |
| 18000828 | 4 | 12,2 | 11,90 | 12,50 | 0,882 | 261 | 201,0 | 320,36 |
| 18000829 | 2 | 13,77 | 13,47 | 14,07 | 0,5548 | 322 | 317,0 | 461,64 |
| 18000830 | 1 | 15,1 | 14,80 | 15,40 | 0,4398 | 410 | 399,0 | 569,63 |
| 18000831 | 2/0 | 17,35 | 16,95 | 17,75 | 0,2766 | 519 | 631,0 | 836,4 |
| 18000832 | 3/0 | 19,76 | 19,36 | 20,16 | 0,2194 | 606 | 792,0 | 1058,27 |
| 18000833 | 4/0 | 21,46 | 20,96 | 21,96 | 0,1722 | 618 | 996,0 | 1301,64 |
| 18000834 | 300KCMIL | 24,7 | 24,20 | 25,20 | 0,1227 | 821 | 1178,0 | 1798,14 |
| 18000835 | 350KCMIL | 26,2 | 25,70 | 26,70 | 0,1052 | 937 | 1645,0 | 2075,67 |
| 18000836 | 500KCMIL | 30,2 | 29,70 | 30,70 | 0,07287 | 1138 | 2345,0 | 2884,87 |
| 18000837 | 14(SOLID) | 6,84 | 6,64 | 7,04 | 8,78 | 64 | 20,7 | 65,01 |
| 18000838 | 12(SOLID) | 7,66 | 7,46 | 7,86 | 5,53 | 85 | 33,0 | 86,19 |
| 18000839 | 10(SOLID) | 8,19 | 7,99 | 8,39 | 3,476 | 111 | 51,6 | 109,35 |

*) Current capacity in normal operation acc. to IEC 60287-1-1 at 30°C