

(N)TMCGCWOEU flex UL

Flexible medium voltage cable, 6/10 kV, 12/20 kV or 18/30 kV
+ 90°C service temperature, single core, oil, UV and ozone resistant
adapted to DIN VDE 250 - 813

Application

These cables are intended for use as short length connection in switchgear or transformer houses where a very small bending radius is required as well as power cables on mining equipment and alongside conveyor belts. Can also be used for low-speed energy chains, drum applications or to supply energy to large electrical applications and drives via energy carriers systems. When laying and during operation, care should be taken to protect them from excessive mechanical stress.

Construction



1. Conductor: Copper conductor, tinned, flexible (class 5)
2. Insulation: EPR
3. Electric field control: Inner and outer layer of semiconductive rubber compound
4. Screen: Copper spiral shield
5. Outer sheath: Rubber, compound 5GM5, red

Technical information

| | | | | |
|---|----------------|--------------------------|-------|-------|
| Rated voltage | kV | 6/10 | 12/20 | 18/30 |
| Max. operating voltage AC | kV | 12 | 24 | 36 |
| Test voltage AC | kV | 17 | 29 | 43 |
| Max. permissible temperature at conductor | | + 90 °C | | |
| Max. short circuit temperature of the conductor | | + 200 °C | | |
| Operating temperature | fix installed | -40 °C to 80 °C | | |
| | flex operation | -25 °C to 80 °C | | |
| Min. bending radius mm | fix installed | 6 x outer diameter in mm | | |
| | flex operation | 8 x outer diameter in mm | | |
| Max. tensile load | | 15 N/mm ² | | |

Safety parameters

| | | |
|-------------------|--------------|-------------|
| Flame propagation | single cable | IEC 60332-1 |
|-------------------|--------------|-------------|

Additional parameters

| | |
|--------------------|---------------------------|
| Weather resistance | Resistant to ozone and UV |
| Oil resistance | EN 60811-404 |

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| N° of cores and cross section mm ² | Outer diameter approx. mm | Weight approx. kg/km | Resistance at 20°C max. Ω/km | Current carrying capacity A |
|--|----------------------------------|-----------------------------|--|------------------------------------|
| 6/10 kV | | | | |
| 1x25/16 | 25 | 800 | 0,795 | 135 |
| 1x35/16 | 23 | 930 | 0,565 | 169 |
| 1x50/16 | 28 | 1130 | 0,393 | 207 |
| 1x70/16 | 30 | 1375 | 0,277 | 268 |
| 1x95/16 | 32 | 1636 | 0,21 | 328 |
| 1x120/16 | 34 | 1990 | 0,164 | 383 |
| 1x150/25 | 36 | 2320 | 0,132 | 444 |
| 1x185/25 | 38 | 2680 | 0,108 | 510 |
| 1x240/25 | 41 | 3300 | 0,0817 | 607 |
| 12/20 kV | | | | |
| 1x25/16 | 29 | 1010 | 0,795 | 135 |
| 1x35/16 | 30 | 1160 | 0,565 | 169 |
| 1x50/16 | 31 | 1350 | 0,393 | 207 |
| 1x70/16 | 34 | 1670 | 0,277 | 268 |
| 1x95/16 | 36 | 1940 | 0,21 | 328 |
| 1x120/16 | 38 | 2230 | 0,164 | 383 |
| 1x150/25 | 40 | 2660 | 0,132 | 444 |
| 1x185/25 | 42 | 3031 | 0,108 | 510 |
| 1x240/25 | 44 | 3881 | 0,0817 | 607 |
| 18/30 kV | | | | |
| 1x150/25 | 43 | 2780 | 0,132 | 2940 |
| 1x300/25 | 50 | 4340 | 0,0654 | 4590 |

Current carrying capacity according to IEC 60364-5-52, conductor temperature 90 °C, free air, ambient temperature 30° C, installation method F: three loaded conductors in trefoil

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