

BETAflam® TRAF0-FLEX UV

Design layout



Application

Halogen-free, UV-resistant and flexible single-core cable for high power transmissions

Construction

- 1) Conductor: Bare fine copper strands acc. to IEC 60228 Class5
- 2) Insulation: Ethylene-propylene-rubber (EPR), cross-linked, black
- 3) Outer sheath: Polyolefin copolymer, UV-resistant, black

Technical data

- Nominal voltage U_0 / U : 0.6 / 1 kV
- Test voltage: 3500 V
- Operating temperature: -30 °C to +90 °C
Max. +130°C emergency mode (<8h/day and <100h/year)
Max. +250°C during short circuit 5s
- Bending radius: min. 8 x D (D = cable diameter)

Properties

- Halogen free: IEC 60754-1; EN 50267-2-1
- Non corrosive gases: IEC 60754-2; EN 50267-2-2
- Low smoke density: IEC 61034-2; EN 61034-2
- No toxic gases: NES 02-713
- Flame retardant: IEC 60332-1-2; EN 60332-1-2
- No fire propagation: IEC 60332-3-24, EN 60332-3-24
- UV-resistant

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Dimensions / Weight

| Design | Part no. | Ø Cable diameter | Cu Index | Weight | Max. bending radius | Max. pulling force |
|---------------------------|-----------------|-------------------------|-----------------|----------------|----------------------------|---------------------------|
| <i>n x mm²</i> | <i>LS</i> | <i>mm</i> | <i>kg / km</i> | <i>kg / km</i> | <i>mm</i> | <i>kN</i> |
| 1 x 50 | 305356 | 16.8 | 480 | 626 | 135 | 3.0 |
| 1 x 70 | | 18.9 | 672 | 836 | 147 | 4.2 |
| 1 x 95 | 302981 | 20.6 | 912 | 1'045 | 165 | 5.7 |
| 1 x 120 | | 22.8 | 1'152 | 1338 | 183 | 7.2 |
| 1 x 150 | 305952 | 25.6 | 1'440 | 1'636 | 205 | 9.0 |
| 1 x 185 | 303703 | 27.9 | 1'776 | 1'967 | 224 | 11.1 |
| 1 x 240 | 221684 | 31.0 | 2'304 | 2'552 | 250 | 14.4 |
| 1 x 300 | | 33.6 | 2'880 | 3119 | 270 | 18.0 |

Cable marking

STUDERCABLES.COM SWITZERLAND manufact. Code TRAFO-FLEX UV no. of cores x conductor cross section meter mark