

TPE-FLEX

High flexible cable for highest requirements in drag chain applications

01



Cable structure

- Fine stranded bare copper conductor according to DIN VDE 0295, IEC 60228 cl. 6
- Core insulation on base of TPE
- Color coded cores according to DIN 47100 for cross-section up to 0,5qmm (from 0,75qmm² black cores with repeated white numbering acc. to DIN VDE 0293)
- Green-yellow earth core in the outer layer
- Up to 11 cores stranded in layers, from 12 cores stranded in bundles around tensile strength center with optimal lay length
- Special TPE outer jacket, color black
- Self-extinguishing and flame retardant, according to IEC 60332-1
- Resistant to oil according to DIN EN 60811-404 4 h at +100 °C

Technical data

High flexible halogen-free cable for highest requirements in drag chain applications

- **Temperature range**
 - flexing from -30 °C to +100 °C (UL:90 °C)
 - fixed from -40 °C to +100 °C (UL:90 °C)
- **Nominal voltage** 1 000 V
- **Test voltage** 3 000 V
- **Minimum bending radius**
 - flexing approx. 3× cable diameter
 - fixed approx. 5× cable diameter
- **Approvals** UL/CSA-cURus 90 °C, 1 000 V

Advantages

- UV, ozone and weather resistant acc. to EN 50396 and HD 605 S2
- Resistant to abrasion, low adhesion, coolant fluids, microbes, cutproof, tearproof

Application

This cable is for highest requirements in drag chain applications, for machining centers, machine and plant engineering in the field of crane and conveyor facilities. Applicable in dry and humid rooms also outdoor.

Remarks

CE = The product is conformed with the EC Low-Voltage Directive 2014/35/EU
Conform to RoHS. Silicone-free.

| Part No. | Number of cores × core cross section [mm ²] | Approx. Ø [mm] | Copper weight [kg/km] | Approx. cable weight [kg/km] |
|------------|---|-------------------|--------------------------|------------------------------------|
| 0124191 OZ | 2 × 0,5 | 5,5 | 10,0 | 30,0 |
| 0124192 | 3 × 0,5 | 5,8 | 15,0 | 33,0 |
| 0124193 | 4 × 0,5 | 6,2 | 20,0 | 41,0 |
| 0124194 | 5 × 0,5 | 6,6 | 25,0 | 47,0 |
| 0124195 | 7 × 0,5 | 7,5 | 35,0 | 63,0 |
| 0124196 | 12 × 0,5 | 10,7 | 60,0 | 134,0 |
| 0124197 | 18 × 0,5 | 12,5 | 90,0 | 185,0 |
| 0124198 | 25 × 0,5 | 14,4 | 125,0 | 253,0 |
| 0124199 OZ | 2 × 0,75 | 5,9 | 15,0 | 40,0 |
| 0124200 | 3 × 0,75 | 6,2 | 23,0 | 44,0 |
| 0124201 | 4 × 0,75 | 6,6 | 30,0 | 54,0 |
| 0124202 | 5 × 0,75 | 7,2 | 38,0 | 64,0 |
| 0124203 | 7 × 0,75 | 8,1 | 53,0 | 87,0 |
| 0124204 | 12 × 0,75 | 11,8 | 90,0 | 215,0 |
| 0124205 | 18 × 0,75 | 14,7 | 135,0 | 270,0 |
| 0124206 | 25 × 0,75 | 16,1 | 188,0 | 371,0 |
| 0124209 OZ | 2 × 1 | 6,3 | 20,0 | 48,0 |
| 0124210 | 3 × 1 | 6,6 | 30,0 | 53,0 |
| 0124211 | 4 × 1 | 7,1 | 40,0 | 65,0 |
| 0124212 | 5 × 1 | 7,7 | 50,0 | 81,0 |
| 0124213 | 7 × 1 | 8,7 | 70,0 | 108,0 |
| 0124214 | 12 × 1 | 12,8 | 120,0 | 218,0 |

| Part No. | Number of cores × core cross section [mm ²] | Approx. Ø [mm] | Copper weight [kg/km] | Approx. cable weight [kg/km] |
|------------|---|-------------------|--------------------------|------------------------------------|
| 0124215 | 18 × 1 | 15,5 | 180,0 | 328,0 |
| 0124216 | 25 × 1 | 17,8 | 250,0 | 457,0 |
| 0124466 | 36 × 1 | 22,0 | 360,0 | 615,0 |
| 0124467 | 42 × 1 | 23,8 | 420,0 | 734,0 |
| 0124468 OZ | 2 × 1,5 | 6,9 | 30,0 | 61,0 |
| 0124217 | 3 × 1,5 | 7,3 | 45,0 | 69,0 |
| 0124218 | 4 × 1,5 | 7,8 | 60,0 | 89,0 |
| 0124219 | 5 × 1,5 | 8,5 | 75,0 | 110,0 |
| 0124220 | 7 × 1,5 | 10,0 | 105,0 | 157,0 |
| 0124221 | 12 × 1,5 | 14,8 | 180,0 | 297,0 |
| 0124222 | 18 × 1,5 | 18,3 | 270,0 | 452,0 |
| 0124223 | 25 × 1,5 | 20,3 | 375,0 | 627,0 |
| 0124481 | 36 × 1,5 | 25,1 | 540,0 | 875,0 |
| 0124482 | 42 × 1,5 | 27,2 | 630,0 | 1017,0 |
| 0124476 | 3 × 2,5 | 8,6 | 75,0 | 109,0 |
| 0124224 | 4 × 2,5 | 9,3 | 100,0 | 136,0 |
| 0124225 | 5 × 2,5 | 10,2 | 125,0 | 168,0 |
| 0124226 | 7 × 2,5 | 12,0 | 175,0 | 234,0 |
| 0124227 | 12 × 2,5 | 18,7 | 300,0 | 483,0 |
| 0124228 | 18 × 2,5 | 22,6 | 450,0 | 696,0 |
| 0124229 | 25 × 2,5 | 25,3 | 625,0 | 953,0 |