

EXTRAFLEX-H



EXTRAFLEX-H is a halogen-free, high flex, light-weight, continuous flex multi-conductor cable designed for use in the machine tool industry, robotics, machine production and drag chains where high flexibility is essential. Suitable for use in flexible and stationary applications under medium mechanical stress with free movements in dry and damp areas. Applications include cable tracks, power chains, connection cables, pick and place units, automated handling equipment, assembly lines, conveyor systems and applications that require a small bending radius. The halogen-free thermoplastic polyolefin copolymer inner and outer jacket construction offers optimal small external diameters and small bending radii. Designed and qualified for a service life of at least 5 million alternating bending cycles in power chains. Outdoor installation is not permitted.



Construction:

- Extra fine bare copper strands
- Strands to VDE-0295 Class-6, IEC 60228 Cl-6
- Special halogen-free* polyolefin core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Fleece wrap over cores
- Halogen-free* outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- *Thermoplastic polyolefin copolymer

Technical:

- Working voltage: 300/500 volts
- Test voltage: 4000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -25° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

| PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT |
|--|-------|-----------------|------------|------------|
| 18 AWG (42/34) 0,75mm² | | | | |
| 2821802 OZ | 2 | 0.244" / 6.2mm | 10 | 30 |
| 2801803 | 3 | 0.264" / 6.7mm | 15 | 37 |
| 2821803 OZ | 3 | 0.264" / 6.7mm | 15 | 37 |
| 2801804 | 4 | 0.287" / 7.3mm | 19 | 45 |
| 2801805 | 5 | 0.311" / 7.9mm | 25 | 53 |
| 2801807 | 7 | 0.370" / 9.4mm | 34 | 72 |
| 2801812 | 12 | 0.441" / 11.2mm | 58 | 113 |
| 2801818 | 18 | 0.524" / 13.3mm | 87 | 162 |
| 2801825 | 25 | 0.650" / 16.5mm | 121 | 225 |
| 17 AWG (56/34) 1,00mm² | | | | |
| 2821702 OZ | 2 | 0.260" / 6.6mm | 13 | 36 |
| 2801703 | 3 | 0.280" / 7.1mm | 19 | 44 |
| 2821703 OZ | 3 | 0.280" / 7.1mm | 19 | 44 |
| 2801704 | 4 | 0.307" / 7.8mm | 26 | 54 |
| 2801705 | 5 | 0.335" / 8.5mm | 32 | 64 |
| 2801707 | 7 | 0.398" / 10.1mm | 45 | 88 |
| 2801712 | 12 | 0.472" / 12.0mm | 77 | 140 |
| 2801718 | 18 | 0.571" / 14.5mm | 83 | 205 |
| 2801725 | 25 | 0.701" / 17.8mm | 161 | 278 |
| 2801741 | 41 | 0.835" / 21.2mm | 264 | 449 |
| 2801750 | 50 | 0.902" / 22.9mm | 322 | 540 |
| 16 AWG (84/34) 1,50mm² | | | | |
| 2821602 OZ | 2 | 0.287" / 7.3mm | 19 | 46 |
| 2801603 | 3 | 0.311" / 7.9mm | 29 | 58 |
| 2821603 OZ | 3 | 0.311" / 7.9mm | 29 | 58 |
| 2801604 | 4 | 0.339" / 8.6mm | 39 | 71 |
| 2801605 | 5 | 0.378" / 9.6mm | 48 | 87 |
| 2801607 | 7 | 0.453" / 11.5mm | 68 | 119 |
| 2801612 | 12 | 0.531" / 13.5mm | 116 | 186 |
| 2801618 | 18 | 0.642" / 16.3mm | 174 | 272 |
| 2801625 | 25 | 0.787" / 20.0mm | 241 | 374 |
| 2801634 | 34 | 0.854" / 21.7mm | 329 | 496 |
| 2801641 | 41 | 0.929" / 23.6mm | 411 | 594 |
| 2801650 | 50 | 1.008" / 25.6mm | 483 | 720 |

Sizes continued on next page.

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EXTRAFLEX-H Sizes Continued. (14 AWG & Larger)

| PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT |
|---|-------|-----------------|------------|------------|
| 14 AWG (140/34) 2,50mm² | | | | |
| 2801403 | 3 | 0.374" / 9.5mm | 48 | 91 |
| 2801404 | 4 | 0.413" / 10.5mm | 64 | 113 |
| 2801405 | 5 | 0.465" / 11.8mm | 80 | 138 |
| 2801407 | 7 | 0.559" / 14.2mm | 113 | 191 |
| 2801412 | 12 | 0.657" / 16.7mm | 193 | 300 |
| 12 AWG (224/34) 4,0mm² | | | | |
| 2801204 | 4 | 0.484" / 12.3mm | 107 | 168 |
| 10 AWG (192/32) 6,0mm² | | | | |
| 2801004 | 4 | 0.571" / 14.5mm | 150 | 252 |
| 2801005 | 5 | 0.638" / 16.2mm | 193 | 307 |

* Additional sizes may be available.