Construction

Conductor
Extra flexible bare copper wires
Class VI Acc. to UNE-EN 60228

Insulation
Polyolefin (UL-CSA Standards)
Identification:
Power: Black numbered (1-2-3) + Yellow/green

General assembly
Insulated conductors laid up together in concentric layers + wrapping of nonwoven tape with eventual fillers in the interstices

Overall screen
Tinned copper wire braid
Coverage: 85% + nonwoven tape on the shield

Outer sheath
Polyurethane (UL-CSA Standards)
Orange RAL 2003 according DESINA

Technical characteristics

Operating voltage
1000 V (Sections from 1.0mm²)

Test Voltage
4000 V (Sections from 1.0mm²)

Operating Tª (conductor)
-40°C to +80°C

Min. bending radius
Fixed installation: 5xD
Moving cable:
· From 1.5mm² to 16mm²: 7.5xD
· From 25mm²: 10xD

Maximum chain speed
300 m/min

Maximum acceleration
50 m/s²

Maximum chain length
10 m (horizontal)

Bending cycles, max.
6.000.000

Application

Power cable suitable for servomotors. The cables have been specially designed for use in cable drag chains, handling automation, machine tools and machines for transformation and machining. The materials used are resistant to mineral oils, greases, coolants and hydraulic fluids. Cables with low capacitance and protected against electromagnetic interference (EMC). Polyurethane outer sheath abrasion and weather resistant.

Standards / Properties

Ref. for construction/drawing
According to UL 758, UL 1581 and CSA 22.2 210.2
(UL 80° 1000V - CSA AWM I/II A/B 80°C 1000V)
According to NFPA 79-2012 Chapter 12.9

Flame Retardant
UNE-EN 60332-1 (IEC 60332-1) ; CEI 20-35 ; UL VW-1 ; CSA FT1

Halogen free
UNE-EN 60754-1 (IEC 60754-1) ; CEI 20-37

Oil and hydrocarbon resistant
UL 1581 ; VDE 0472 part 803 A/B ; HD 22.10 S1 ; CNOMO E.03.40.150N

Water resistant
UL 1581 ; IEC 60811
## Data

<table>
<thead>
<tr>
<th>Code</th>
<th>NxS (mm²)</th>
<th>Ø (mm)</th>
<th>Weight (kg/km)</th>
<th>R at 20°C (Ohm/Km)</th>
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### Legend

- **Code**: Cervi codification
- **NxS (mm²)**: Number of conductors x Section (mm²)
- **Ø (mm)**: Approx. outer diameter (mm)
- **Weight (kg/km)**: Approximate cable weight (kg/km)
- **R at 20°C (Ohm/Km)**: Conductor resistance at 20°C (Ohm/km)