

Leitungen für den Schleppketteneinsatz / Cables for use in Drag Chains

PU-EF-CP Datenleitung

PUR hochflexibel, geschirmt
High flexible screened (PUR)



Verwendung:

Für den Einsatz in Fertigungsprozessen bei denen Datenleitungen mit hoher Flexibilität benötigt werden, sowie für den Schleppketteneinsatz und dort wo schnelle, abrupte Bewegungen vorhanden sind.

Aufbau:

- Feinstdrähtige Litzen aus blanken CU-Drähten
- TPE Aderisolation, Adern verschiedenfarbig nach DIN Farbcode 47100
- Adern in Lagen verseilt
- Polyurethan Außenmantel grau, RAL 7001 nach VDE 0207
- verzinnntes CU-Abschirmgeflecht
- flammwidrig
- Vliesbandagierung
- hydrolysebeständig
- mikrobebeständig
- adhäsionsarm

Technische Daten:

| | |
|-----------------------------------|--|
| Leiter Werkstoff | Kupfer, blank |
| Leiterklasse | Klasse 6 nach VDE 0295 bzw. IEC 60228 |
| Aderisolationwerkstoff | TPE |
| Aderkennung | DIN 47100 |
| Verseilung | In Lagen verseilt |
| Außenmantelwerkstoff | PUR |
| Mantelfarbe | Grau (RAL 7001) |
| Nennspannung [V] | 300 / 500 |
| Prüfspannung [V] | 4000 |
| Leiterwiderstand | |
| Isolationswiderstand | ≥ 20 MΩ x km |
| Strombelastbarkeit | |
| kleinster Biegeradius fest [xd] | 4 x d |
| kleinster Biegeradius bewegt [xd] | 7,5 x d |
| Betriebstemp. fest min/max [C] | -40°C bis +80°C |
| Betriebstemp. bew. min/mac [C] | -40°C bis +80°C |
| Temperatur am Leiter max. | |
| Brandverhalten | IEC 60332-1-2: flammwidrig und selbstverlöschend |
| Normen | |

Application:

Suitable for automated production processes where data transmission cables of high flexibility are required, also for use in drag chains and where fast and abrupt movements exist.

Construction:

- superfine strands of plain copper conductor
- TPE core insulation, cores in several colours to DIN colour code 47100
- twisted in layers
- PUR outer sheath grey, RAL 7001 as per VDE 0207
- tinned copper screen braiding
- flame-retardant
- textile wrapped
- hydrolysis resistant
- microbe resistant
- non-adhesive

Technical Data:

| | |
|--------------------------------|---|
| Conductor Material | Copper, bare |
| Conductor class | Class 6 acc. to VDE 0295 or IEC 60228 |
| core insulation | TPE |
| core identification | DIN 47100 |
| stranding | Twisted in layers |
| outer sheath | PUR |
| sheath colour | Grey (RAL 7001) |
| rated voltage [V] | 300 / 500 |
| testing voltage [V] | 4000 |
| conductor resistance | |
| insulation resistance | ≥ 20 MΩ x km |
| current carrying capacity | |
| min. bending radius fixed [xd] | 4 x d |
| min. bending radius moved [xd] | 7,5 x d |
| working temp fixed min/max [C] | -40°C up to +80°C |
| working temp moved min/mac [C] | -40°C up to +80°C |
| temp at conductor max. | |
| burning behaviour | IEC 60332-1-2: flame-retardant and self-extinguishing |
| Approvals | |

Kabel / Cable

| Art Nr. Part No. | Adern x Querschnitt no. of cores x cross section | Außen Ø ca. mm outer Ø ca. mm | CU Gewicht kg/100m copper weight kg/100m | Gewicht kg/100m weight kg/100m |
|---------------------|---|----------------------------------|---|-----------------------------------|
| 275020014 | 2 x 0.14 | 4.60 | 1.12 | 3.30 |
| 275020025 | 2 x 0.25 | 5.00 | 1.49 | 4.10 |
| 275020034 | 2 x 0.34 | 5.60 | 1.61 | 4.60 |
| 275030014 | 3 x 0.14 | 4.90 | 1.41 | 3.80 |
| 275030025 | 3 x 0.25 | 5.30 | 1.88 | 4.70 |
| 275030034 | 3 x 0.34 | 6.30 | 2.87 | 6.10 |
| 275040014 | 4 x 0.14 | 5.00 | 1.55 | 4.10 |
| 275040025 | 4 x 0.25 | 6.30 | 2.13 | 5.70 |
| 275040034 | 4 x 0.34 | 6.90 | 3.57 | 8.20 |
| 275050014 | 5 x 0.14 | 5.30 | 1.83 | 4.90 |
| 275050025 | 5 x 0.25 | 6.90 | 3.10 | 7.40 |
| 275050034 | 5 x 0.34 | 7.00 | 3.91 | 9.20 |
| 275070014 | 7 x 0.14 | 7.10 | 2.76 | 7.30 |
| 275070025 | 7 x 0.25 | 7.40 | 3.96 | 9.30 |
| 275070034 | 7 x 0.34 | 8.10 | 5.27 | 11.90 |
| 275100014 | 10 x 0.14 | 8.20 | 3.93 | 9.50 |
| 275100025 | 10 x 0.25 | 8.70 | 5.39 | 12.10 |
| 275100034 | 10 x 0.34 | 10.30 | 6.74 | 16.10 |
| 275140014 | 14 x 0.14 | 8.60 | 4.53 | 10.90 |
| 275140025 | 14 x 0.25 | 9.20 | 6.42 | 14.90 |
| 275140034 | 14 x 0.34 | 10.50 | 8.53 | 19.80 |
| 275180014 | 18 x 0.14 | 8.70 | 5.41 | 12.70 |
| 275180025 | 18 x 0.25 | 10.00 | 7.84 | 16.70 |
| 275180034 | 18 x 0.34 | 11.10 | 9.97 | 22.60 |
| 275250014 | 25 x 0.14 | 10.50 | 6.84 | 16.10 |
| 275250025 | 25 x 0.25 | 12.70 | 10.10 | 22.80 |
| 275250034 | 25 x 0.34 | 13.70 | 15.50 | 32.90 |

Kontakt: