

Technical Data

VDE 0812

Document Reference

Data Sheet

CONTROL Cable

For standard applications, flame retardant.

EN 50575:2016 CPR Class Eca

Multi-Core, PVC-Insulation, Collective Screen, PVC Shore A-Sheath

PVC/CAM/PVC

Application

These cables are used for power supply and control signal transmission in mechanical engineering for tooling machinery, for production lines and transport equipment, as well as in industrial installations. They meet the requirements of the EEC directive concerning electromagnetic compatibility (EMC), and ensure interference-free transmission providing protection against external pulses.

Construction

8x0,34 mm²

| | | Unit | Nominal Value |
|-------------------|---|------|---------------|
| Formation | 8 Cores | | |
| Section | 0,34 mm ² | | |
| Conductor | Tinned copper wire, 7 strand | mm | 0,7 |
| Insulation | Polyvinyl chloride - PVC | mm | 1,5 |
| Colour Code | Red,Blu,Green, Yellow,White,Black,Brown,Orange | | |
| Individual Screen | N.A. | | |
| Wrapping | at least 1 layer of plastic tape 0,023 mm + Interstitial Fillers | | |
| Collective Screen | 0,026 mm Aluminium / PETP tape over tinned copper drain wire | | |
| Inner Sheath | N.A. | | |
| Armour | N.A. | | |
| Outer Sheath | Polyvinyl chloride - PVC - Yellow | mm | 7,0 |
| Cable Printing | LiY(St)Y 8x0,34 mm ² - 450/750V - VDE 0812 - IEC 60332-3 - EN 50575:2014+A1:2016 CPR Class Eca + BATCH + METER MARKING | | |

Technical Data & Standard References

| | | | |
|-------------------------------------|-----------------------|----------------------------------|---------------|
| Fire Propagation: | | | |
| - Test on single cable | IEC 60332-1 | CPR Class Eca | EN 50575:2016 |
| - Test on bunched cables | IEC 60332-3 | Construction Reference Standard: | VDE 0812 |
| | | Type of Cable: | Control Cable |
| | | Low Voltage Directive | 2014/35/UE |
| Limiting Oxygen Index (LOI) | (min 30%) | Other References: | |
| Smoke Density | IEC 61034 | - IEC 60228 | |
| Amount of halogen acid gas | IEC 60754-1 (max 15%) | - IEC 60332-1 | |
| Acidity (ph value) and conductivity | IEC 60754-2 | - IEC 60332-3-24 | |
| | | - NF C 32-020 | |
| Notes | | | |

Electrical & Mechanical Data

| | | | | |
|---------------------------------|------|----------------------|----------------------|-------------------------|
| Conductor Cross-section | Nom. | 0,34 mm ² | Temperature Range: | |
| DC Resistance per core at 20° C | max | Ω/km 57,2 | During Installation | ° C -5° C up to +50° C |
| Insulation Resistance at 20° C | min | MΩ*km 25 | Fixed Installation | ° C -30° C up to +80° C |
| Mutual Capacitance | max | nF/km 250 | Insulation Operation | ° C -30° C up to +80° C |
| Inductance | max | mH/km 1 | Min. Bending Radius | mm 8 x cable diameter |
| Test Voltage - Core/Core | V | 2000 | Max Pulling Tension | N/mm ² 130 |
| Test Voltage - Core/Screen | V | 2000 | Weight Approx | kg/km 80 |
| L/R Ratio | max | μH/Ω 25 | | |
| Operating Voltage | V | 450/750 | | |

