



## Halogen-free data transmission cable with colour code acc. to DIN 47100 - resistant to a wide range of chemical media

Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for both indoor and outdoor applications; Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media; ?Good resistance to ammonia compounds and bio-gases; Good resistance to cold and hot water as well as water-soluble cleaning agents; Well-suited to frequent steam cleaning

- Excellent weather resistance
- Good chemical resistance



## Product description

### Application range

- Machine tool building, medical technology, laundries, car washing equipment, chemical industry, composting plants, sewage works
- Food and beverage industry, especially for production and processing equipment of milk and meat products
- For data processing, measurement and control engineering, safety related systems and as electronics cable
- For indoor and outdoor use

### Benefits

- Outstanding weather, ozone and UV resistance together with the wide temperature range enable versatile use for both indoor and outdoor applications
- Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
- ?Good resistance to ammonia compounds and bio-gases
- Good resistance to cold and hot water as well as water-soluble cleaning agents
- Well-suited to frequent steam cleaning

## Product Make-up

- Fine-wire/multi-wire (0.34 mm<sup>2</sup>) strand made of bare copper wires
- Core insulation made of special halogen-free compound
- TP structure
- Tinned-copper braiding
- Outer sheath made of special TPE  
Outer sheath colour: black (RAL 9005)

## Norm references / Approvals

- Based on VDE 0812

## Product features

- Halogen-free materials
- Good chemical resistance to ester-based hydraulic fluids
- Ozone, UV and weather-resistant according to EN 50396 and HD 605 S2
- Halogen-free according to IEC 60754-1  
(amount of halogen acid gas)  
Corrosiveness of combustion gases according to EN 50267-2-3 (degree of acidity)
- Low smoke density according to IEC 61034-2

## Technical Data

Core identification code	DIN 47100 without colour repetition, refer to Appendix T9
Mutual capacitance	C/C approx. 60 nF/km C/S approx. 100 nF/km
Peak operating voltage	(not for power applications) at 0.14 mm <sup>2</sup> : 350 V at ? 0.25 mm <sup>2</sup> : 500 V
Classification	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Inductivity	approx. 0.65 mH/km
Specific insulation resistance	> 20 GOhm x cm
Conductor stranding	Stranded, fine-wire 0.34 mm <sup>2</sup> : 7-wire
Minimum bending radius	Occasional flexing: 10 x outer diameter Fixed installation: 4 x outer diameter
Test voltage	At 0.14 mm <sup>2</sup> : 1200 V ? 0.25 mm <sup>2</sup> : 1500 V
Temperature range	Occasional flexing: -40°C to +90°C

---

Fixed installation: -50°C to +90°C