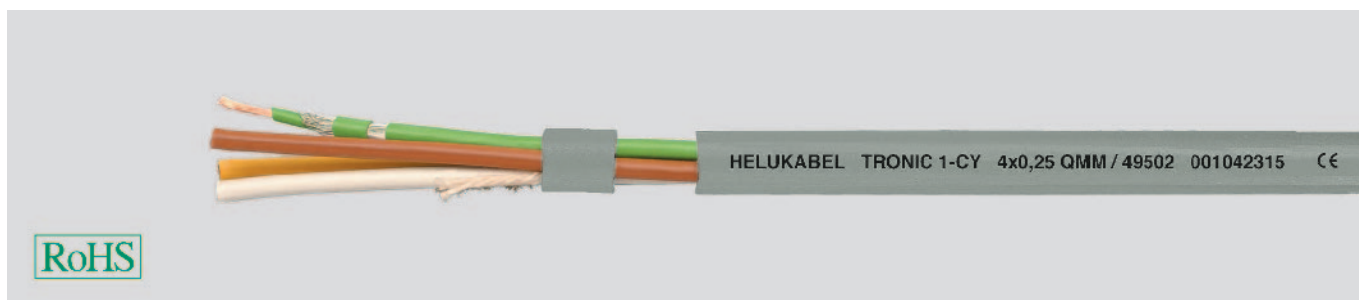


# TRONIC 1-CY each core individually screened, EMC-preferred type



## Technical data

- Special PVC core insulation, adapted to DIN VDE 0812
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  
0,25 mm<sup>2</sup> 250 V  
0,50 mm<sup>2</sup> 350 V
- **Test voltage** (core/screen)  
0,25 mm<sup>2</sup> 800 V  
0,50 mm<sup>2</sup> 1200 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable construction

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 (for 0,5 mm<sup>2</sup>) 0,25 mm<sup>2</sup> to DIN VDE 0812
- Strand make-up  
0,25 mm<sup>2</sup> 14x0,15 mm  
0,50 mm<sup>2</sup> 16x0,20 mm
- Special PVC core insulation Y12, to DIN VDE 0207 part 4
- Colour coded to DIN 47100
- Each core individually copper spirally screened, approx. 85% coverage
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath YM2, to DIN VDE 0207 part 5
- Colour grey (RAL 7001)

## Properties

- Extensively oil resistant.  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

The individually screened, flexible cable is ideal for use in data and impulse transfer in computers, communication systems and external units and offers interference-free data flow for all measuring and command functions. This cable type is widely used in the machine and steel producing industries as well as for traffic signals and data processing areas.

**EMC** = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

**CE** = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
49501	3 x 0,25	6,5	18,0	40,0	24
49502	4 x 0,25	7,2	24,0	45,0	24
49503	5 x 0,25	8,0	30,0	56,0	24
49504	7 x 0,25	8,8	42,0	70,0	24
49505	8 x 0,25	10,0	48,0	87,0	24
49506	10 x 0,25	11,3	60,0	90,0	24
49507	12 x 0,25	12,0	72,0	95,0	24
49508	16 x 0,25	13,1	96,0	115,0	24
49509	24 x 0,25	16,0	144,0	170,0	24
49510	32 x 0,25	18,5	192,0	210,0	24
49511	48 x 0,25	23,5	288,0	320,0	24

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
49512	3 x 0,5	7,3	28,8	71,0	20
49513	4 x 0,5	8,2	38,5	81,0	20
49514	5 x 0,5	9,2	48,0	95,0	20
49515	7 x 0,5	10,0	67,0	115,0	20
49516	8 x 0,5	11,0	77,0	145,0	20
49517	10 x 0,5	13,2	96,0	169,0	20
49518	12 x 0,5	14,0	114,6	185,0	20
49519	16 x 0,5	15,5	154,0	225,0	20
49520	32 x 0,5	21,5	308,0	440,0	20

Dimensions and specifications may be changed without prior notice.