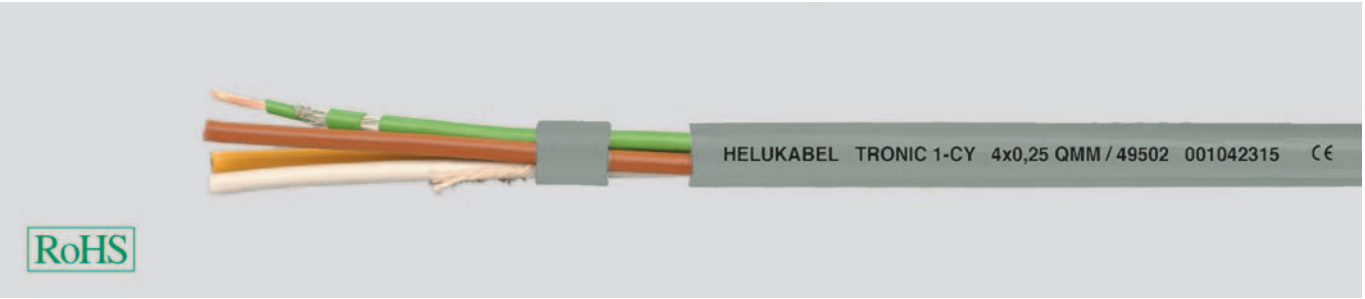
TRONIC 1-CY each core individually screened, EMC-preferred type, meter marking



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
- **Operating peak voltage** (not for heavy current installation purposes) 0,25 mm² 250 V 0,50 mm² 350 V
- **Test voltage** (core/screen) 0,25 mm² 800 V 0,50 mm² 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 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, from 0,5 mm² to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Conductor construction: 0,25 mm² = 14x0,15 mm 0,50 mm² = 16x0,2 mm
- Core insulation of special PVC compound type TI2 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN 47100
- Each core individually with copper spiral shield, approx. 85% coverage
- Contact protection, PVC sheath
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour grey (RAL 7001)
- with meter marking

Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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 compatibillity

To optimize 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 2006/95/EC.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. 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. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. 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. (RB01)

Suitable accessories can be found in Chapter X.

• Cable tie