

# TRONIC 2-CY 2 cores screened



HELUKABEL TRONIC 2-CY 4x0,25 QMM / 49526 001042316

CE



## 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
- **Conductor resistance**  
0,14 mm<sup>2</sup> = max. 138 Ohm/km  
0,25 mm<sup>2</sup> = max. 77,8 Ohm/km  
0,50 mm<sup>2</sup> = max. 37,8 Ohm/km
- **Nominal voltage** (50 Hz)  
0,14 mm<sup>2</sup> = max. 350 V  
0,25 mm<sup>2</sup> = max. 500 V  
0,50 mm<sup>2</sup> = max. 500 V
- **Test voltage** (50 Hz eff)  
0,14 mm<sup>2</sup> = 800 V  
0,25 mm<sup>2</sup> = 800 V  
0,50 mm<sup>2</sup> = 1200 V
- **Breakdown voltage**  
0,14 mm<sup>2</sup> = 1600 V  
0,25 mm<sup>2</sup> = 1600 V  
0,50 mm<sup>2</sup> = 2400 V
- **Insulation resistance**  
min. 200 MOhm x km
- **Mutual capacitance** (approx.-value)  
core/core  
0,14 mm<sup>2</sup> = 70 pF/m  
0,25 mm<sup>2</sup> = 80 pF/m  
0,50 mm<sup>2</sup> = 80 pF/m  
core/screen  
0,14 mm<sup>2</sup> = 270 pF/m  
0,25 mm<sup>2</sup> = 350 pF/m  
0,50 mm<sup>2</sup> = 400 pF/m
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (bis 80 Mrad)

## Cable construction

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 (for 0,5 mm<sup>2</sup>) 0,14 and 0,25 mm<sup>2</sup> to DIN VDE 0812
- Strand make-up  
0,14 mm<sup>2</sup> 18x0,10 mm  
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
- White and brown cores each individually screened
- Colour coded to DIN 47100
- Cores stranded in layers with optimal lay-length
- Copper screened braiding, approx. 85% coverage
- 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

TRONIC 2-CY is used in all areas of measuring and control technology requiring only 2 impulse transfer cores. This cable type is used mainly in the machinery and industrial equipment fields as well as in the steel industry and in electronics.

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.
49521	4 x 0,14	6,2	14,6	40,0	26
49522	8 x 0,14	7,2	20,3	50,0	26
49523	12 x 0,14	8,4	26,8	70,0	26
49524	16 x 0,14	8,6	32,0	80,0	26
49525	24 x 0,14	9,0	43,4	110,0	26
49526	4 x 0,25	6,6	21,3	60,0	24
49527	8 x 0,25	8,0	31,0	90,0	24
49528	12 x 0,25	9,2	40,5	120,0	24
49529	16 x 0,25	9,6	50,1	140,0	24
49530	24 x 0,25	12,0	69,3	200,0	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.
49531	4 x 0,5	7,6	34,0	100,0	20
49532	8 x 0,5	11,6	53,2	150,0	20
49533	12 x 0,5	11,9	72,4	190,0	20
49534	16 x 0,5	12,5	91,6	240,0	20
49535	24 x 0,5	15,3	130,0	310,0	20

Dimensions and specifications may be changed without prior notice.