

29.2.2 INK0448, Encoder Cable

Data Sheet - Bulk Cable

| Designation | Symbol | Unit | INK0448 |
|--|------------------|------------------|--|
| Brief description of cable | | | (4x2x0.25mm ² + 2x0.5mm ²)C |
| RoHS | | | according to EU-directive 2002/95/EG |
| Recognized UL and CSA ¹⁾ | | | cURus; UR+CSA |
| AWM Style (UL) | | | 20233, 20235 |
| Cross section | D | mm | 8.8 +/-0.3 |
| Cross section of control wire | | mm ² | 0.25 |
| Cable jacket material ²⁾ | | | PUR (adhesion-free, matt) |
| Cable jacket color | | | RAL 2003 (orange) |
| Specific cable weight | m | kg/m | 0.100 |
| Temperature range during storage | | °C | -30 ... +40 |
| Ambient temperature during operation (fix installation) | | °C | -30 ... +40 |
| Ambient temperature during operation (flexible installation) | | °C | -20 ... +40 |
| Operation temperature on the wire (flexible/fix) | | °C | +80 / +90 |
| Conductor resistance at 20°C (EN 60228; class 6) | R ₂₀ | Ohm/km | 83.0 (0.25 mm ²) / 39.5 (0.5mm ²) |
| Operating voltage of control wires | | V | 300/300V (VDE); 300V/AC (UL) |
| Halogens | | | Halogen-free acc. to VDE 0472, Part 815 |
| Oil resistance | | | EN 60811-2-1 and EN 50363-10-2 |
| Burning behavior | | | UL 758, section 40, Cable Flame Test Section 1061 acc. to UL 1581 and CSA C22.2 No. 210-05 Sec. 8.8.2, test acc. to DIN EN 60332-1-2 |
| Use in cable drag chains | | | Yes |
| Bending cycles | | Mio. | 5 |
| Bending radius at flexible installation | | mm | 7.5 x D |
| Bending radius at fix installation | | mm | 5 x D |
| Max. acceleration ³⁾ | a _{max} | m/s ² | 10 |
| Max. travel velocity ⁴⁾ | v | m/s | 5 |
| Maximum horizontal travel path ⁵⁾ | c | m | 50 |
| Bending and torsion stress | | ° | not suited |

Latest amendment: 2013-01-03

- 1) UL file number acc. to cable labeling
 2) Acc. to EN 50363-10-2
 3) 4) 5) Drag chain parameter: Maximum value only particularly valid

Tab. 29-18: INK - technical data