

TOPFLEX® 228-10-14 EMC-preferred type



HELUKABEL TOPFLEX 228-10-14 21x2x0,18 QMM / 22812 350 V 001042934 C €



Technical data

- Special core and sheath compound from PVC
- **Conductor resistance** at 20°C max. 98 Ohm/km
- **Temperature range** flexing -10°C to +70°C fixed installation -30°C to +70°C
- **Nominal voltage** 350 V
- **Test voltage** core/core 2000 V core/screen 1000 V
- **Breakdown voltage** min. 4000 V
- **Insulation resistance** min. 100 MOhm x km
- **Minimum bending radius** approx. 10x cable Ø
- **Coupling resistance** max. 250 Ohm/km

Cable construction

- Tinned copper conductor
- 7-strands, suitable for clamp-and-cut system
- Special PVC core insulation
- Colour coded acc. to table shown below
- Cores laid up in pairs, alt. longitudinally
- Film wrap
- Tinned copper braided screen, approx. 85% coverage
- Special PVC outer sheath
- Sheath colour grey (RAL 7000)

Properties

- Largely oil-resistant; for Chemical Resistance see Technical Information table
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- **Core-twisting** starting - with the outer layer
Colour code: Typ 50x0,18
Core/Colour: 1/wh, 2/bn, 3/gn, 4/ye, 5/gy, 6/pk, 7/bu, 8/rd, 9/bk, 10/vt, 11/gvyt, 12/rdbk, 13/whgn, 14/bngn, 15/whye, 16/yebn, 17/whgy, 18/gybn, 19/whpk, 20/pkbn, 21/whbu, 22/whbk, 23/bnrd, 24/whrd, 25/bnbu, 26/yebk, 27/gnbk, 28/yerd, 29/gnrd, 30/yebu, 31/gnbu, 32/yepk, 33/pkgn, 34/yegy, 35/gygn, 36/bnbk, 37/gybu, 38/pkbu, 39/gyrd, 40/pkrd, 41/gybk, 42/pkbk, 43/bubk, 44/rdbk, 45/wh, 46/bn, 47/gn, 48/gy, 49/ye, 50/pk
- **Paired twisting** starting - with the outer layer
Colour code: 8 to 21x2x0,18
Pair no./Colour: 1/bk-bn 2/rd-or 3/ye-gn 4/bu-vt 5/gy-wh 6/whbk-whbn 7/whrd-whor 8/whgy-whgn 9/whbu-whvt 10/whgy-brbk 11/bnrd-bnor 12/bngy-bngn 13/bnbu-bnvt 14/bngy-bnwh 15/gnwg-gnbr 16/gnrd-gnor 17/gnbu-gnvt 18/gngy-gnwh 19/yebk-yebr 20/yerd-yeor 21/yebu-yevt

Application

These cables are installed in machinery and industrial plants as a data transfer cable.

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. mm²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
22810	8 x 2 x 0,18	8,5	56	66,0
22819	10 x 2 x 0,18	9,7	70	79,0
22811	13 x 2 x 0,18	10,5	83	102,0
22812	21 x 2 x 0,18	12,6	120	152,0
22814	50 x 0,18	12,0	140	191,0

Dimensions and specifications may be changed without prior notice.