



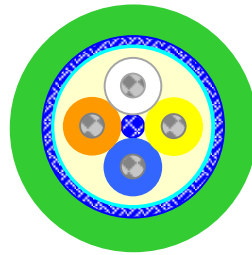
HELUKABEL®

HELUKABEL® GmbH, Hemminge - Germany

Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet – Technisches Datenblatt – Technical Data Sheet

Helu Part Number.: **802186**

Description: **INDUSTRIAL ETHERNET Torsion 2x2xAWG22-100 FR-PUR GN
UL AWM Style 20549**



Construction:

Conductor: Stranded tinned copper wire, diameter: 0,75 mm ≈ AWG22/19
Isolation: Foam-PE
Diameter: approx. 1,5 mm , max. 1,60 mm
Core colors: wh, ye, bl, or
Stranding: 4 cores stranded to a quad (Base 1: wh-bl, Base 2: ye-or), a central element can be used as a choice of the producer
Separator: plastic foil
Shield: braiding of tinned copper wires / optical coverage 85% +-5%
Separator foil (optional)
Outer jacket: Special PUR compound
Wall thickness: nom. 1,0mm
Outer diameter: approx. 6,5 mm, Tolerance: 6,3 mm to 6,7 mm
Colour: green (similar to RAL 6018)
Printing: Ink-Jet printed (black):

<Metrierung>m

HELUKABEL® PROFInet Torsion (C)

2X2X0,75mm (Litze) * 22AWG E170315-058 <Logo cRUus> AWM 20549 80°C 300V I A/B FT2
802186 0158<Fert.Nr.> <CE-Zeichen> <HELU Datum>

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Date of issue : 18.12.2007

Technical modification reserved

Creator : DNB / Berger PM

Number : 802186

Up-dating : 02.07.2015 Name: Berger Page 1 / 3



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Certifications and Listings:

UL / CSA: c(RU)us Recognition AWM Style 20549 80°C 300V
wiring) acc. UL 758 for USA and Canada

Elektrical data (at 20 °C, if not described different):

Operating Voltage: max. 125 V (Peak, not for power using)
Test voltage: 700 V, 50 Hz, 1 min (core/core and core/screen)
Loop resistance: max. 120,0 Ω/km
Isolation resistance: min. 5 GΩ.km
Capacity: nom. 52 nF/km
Impedance: 100 Ω ± 15 Ω
HF-Attributes: Category 5e (typical data)

| Frequency | typical Attenuation [dB/100 m] | Typical ELFEXT [dB] |
|-----------|--------------------------------------|---------------------------|
| 4 | 5,0 | 52,0 |
| 10 | 8,1 | 43,8 |
| 16 | 10,0 | 39,7 |
| 20 | 11,9 | 37,8 |
| 31,25 | 15,5 | 33,9 |
| 62,5 | 26,5 | 24,0 |
| 100 | 41,0 | 20,0 |

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Mechanical and thermal characteristics:

| | |
|-------------------------|---|
| Flame retardant: | Horizontal Flame Test acc. UL 1581 sec. 1090 / CSA Single core test acc. IEC 60332-1-2 |
| Halogen free: | acc. IEC 60754, DIN VDE 0472 part 815 |
| Operating temperature:- | 40 °C up to + 80 °C |
| Bending radius, min.: | 12xOD (repeated), 5xOD (single) |
| Torsion (left/right): | +/-180°/m |
| Cycles: | 1.000.000 |
| Application: | Torsion |
| Remark: | Not to use in FESTOON applications ! |
| Oil resistance: | yes |
| UV resistance: | yes |
| Silicon free: | yes |

Other attributes:

CE conform (ROHS included)