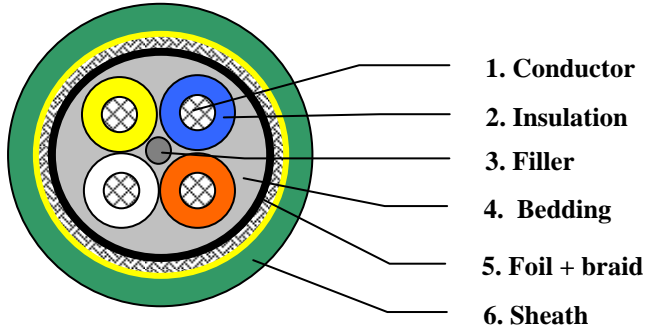



CONSTRUCTION



1. Conductor	19x0.15 mm (22AWG) stranded tinned copper
2. Insulation	
Material	Polyolefin
Diameter over insulation	1.63 ± 0.05 mm
Colour of insulation	White, Blue and Yellow, Orange
3. Filler	
4. Bedding	
Material	FRNC
Nom. Diameter	4.3 mm
5. Foil + Braid	
Material	Aluminium / Polyester
braided screen	tinned copper wires
Coverage	> 85%
6. Sheath	
Material	PUR Halogenfree
Colour	Green RAL 6018
Foil	non-woven foil under the sheath
Diameter over jacket	6.50 +/- 0.2 mm
Colour	green RAL 6018

 BELDEN SENDING ALL THE RIGHT SIGNALS	TECHNICAL DATA SHEET	code	70008PU
		version	4
	2x2xAWG 22 (QUAD)	date	2013-12-13
	PROFINET TYPE C (Trailing)	page	2/2

REQUIREMENTS AND TEST METHODS

Electrical:

ISO/IEC 11801 ed. 2.0, Cat.5.

Max. operating voltage UL

300 V rms

Test voltage wire-wire/wire-screen

2.5kVdc

Maximum conductor DC-resistance @ 20°C

57.1 Ω/km

Transfer impedance @ 10MHz

< 10 mOhm/m

Nom. velocity of propagation

68 %

Delay

< 5.3 ns/m

Impedance @ 1 – 100 MHz

100 +/- 15 Ω

Frequency (MHz)	Nom. Attenuation (dB/100m)	Min. Next (dB)	Min. ELFEXT (dB/100m)	Min. SRL (dB)
1	2.1	65	64	-
4	4	56	52	23
10	6.3	50	44	25
16	8	47	40	25
31.25	11.4	43	34	23.6
62.5	16.5	38	28	21.5
100	21.3	35	24	20.1

Mechanical and physical:

Relevant standards:

UL AWM 20549

Flame resistance

FT2

Oil resistance

IEC 60811-2-1

Drag chain cycles ($v < 200$ m/min., $a < 5$ m/s², $r = 60$ mm) > 5 million cycles

Temperature range installing

- 5 to +60 °C

Temperature range operating

- 40 to +80 °C

Temperature range storage

-40 to +80 °C



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

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