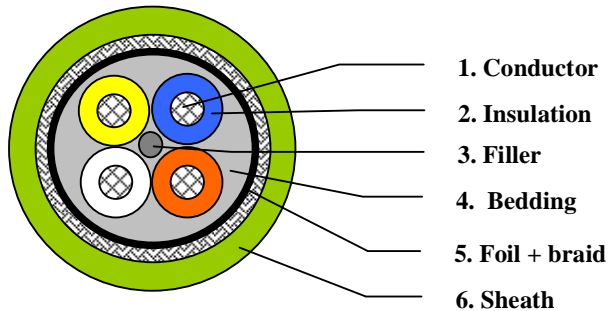



CONSTRUCTION



1. Conductor	7x0.25 mm (22AWG) stranded tinned copper
2. Insulation	
Material	Polyolefin
Diameter over insulation	1.55 ± 0.05 mm
Colour of insulation	White, Blue and Yellow, Orange
3. Filler	
4. Bedding	
Material	FRNC
Nom. Diameter	4.1 mm
5. Foil + Braid	
Material	Aluminium / Polyester
Thickness	50 / 23 µm
Coverage of braided screen	> 85%
6. Sheath	
Material	FRNC
Colour	Green RAL 6018
Diameter over jacket	6.50 +/- 0.2 mm
Colour	green RAL 6018

	TECHNICAL DATA SHEET	code	70007NH
		version	4
	2x2xAWG 22/7 (QUAD)	date	2016-03-10
	PROFINET TYPE B FRNC	page	2/2

REQUIREMENTS AND TEST METHODS

Electrical:

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

Max. operating voltage	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	65.3	64	-
4	4.1	56.3	52	23
10	6.5	50.3	44	25
16	8.3	47.2	40	25
31.25	11.7	43	34	23.6
62.5	17.0	38.4	28	21.5
100	22.0	35.3	24	20.1

Mechanical and physical:

Flame resistance	IEC 60332-1
Oil resistance	IEC 60811-2-1
Halogenfree	IEC 60754-2
Temperature range installing	- 5 to +50 °C
Temperature range operating	- 25 to +70 °C
Temperature range storage	-40 to +70 °C
Flame resistance UL AWM	Cable flametest
UL AWM Style	21286



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.