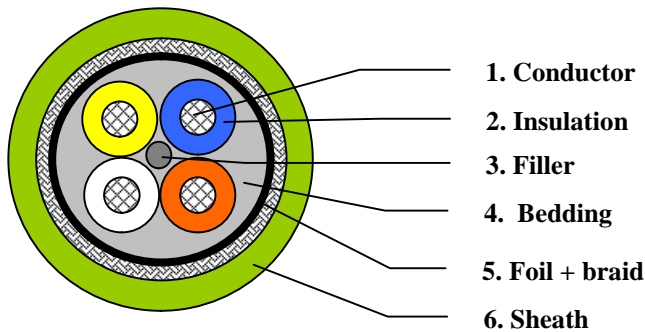


## CONSTRUCTION



<b>1. Conductor</b>	7x0.25 mm (22AWG) stranded tinned copper
<b>2. Insulation</b>	
Material	Polyolefin
Diameter over insulation	1.57 ± 0.05 mm
Colour of insulation	White, Blue and Yellow, Orange
<b>3. Filler</b>	
<b>4. Bedding</b>	
Material	FRNC
Nom. Diameter	4.1 mm
<b>5. Foil + Braid</b>	
Material	Aluminium / Polyester
Thickness	50 / 23 µm
Coverage of braided screen	> 85%
<b>6. Sheath</b>	
Material	FRNC
Colour	Green RAL 6018
Diameter over jacket	6.50 +/- 0.2 mm
Colour	green RAL 6018

<b>TECHNICAL DATA SHEET</b>	code	<b>70007NH</b>
	version	<b>2</b>
2x2xAWG 22/7 (QUAD)	date	<b>2010-02-02</b>
<b>PROFINET TYPE B FRNC</b>	page	<b>2/2</b>

## 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



Belden CDT believes 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.