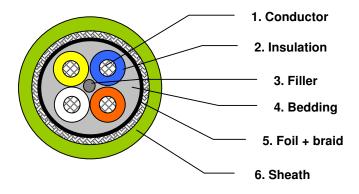


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## **CONSTRUCTION**



1. Conductor 7x0.25 mm (22AWG) stranded tinned copper

2. Insulation

 $\begin{array}{ll} \text{Material} & \text{Polyolefin} \\ \text{Diameter over insulation} & 1.57 \pm 0.05 \text{ mm} \end{array}$ 

Colour of insulation White, Blue and Yellow, Orange

3. Filler

4. Bedding

MaterialFRNCNom. Diameter4.1 mm

5. Foil + Braid

Material Aluminium / Polyester

Thickness  $$50\,/\,23~\mu m$$  Coverage of braided screen \$>85%

6. Sheath

Material FRNC

Colour Green RAL 6018
Diameter over jacket 6.50 +/- 0.2 mm



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## **REQUIREMENTS AND TEST METHODS**

## Electrical:

ISO/IEC 11801 ed. 2.0, Cat.5.		
Max. operating voltage	300	V rms
Test voltage wire-wire/wire-screen	2.5	kVdc
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	Nom.	Min. Next	Min.	Min.
(MHz)	Attenuation	(dB)	ELFEXT	SRL
	(dB/100m)		(dB/100m)	(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:

Flame resistance	IEC 60332-1
Oil resistance	IEC 60811-2-1
Halogen free	IEC 60754-2
Temperature range installing	- 5 to + 50 °C
Temperature range operating	- 25 to + 80 °C
Temperature range storage	- 40 to + 80 °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.