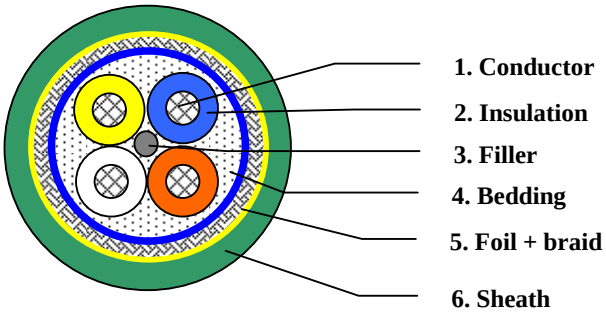
CONSTRUCTION



1.	**Conductor**	19x0.15 mm (22AWG) stranded tinned copper
2.	**Insulation**	
	Material	Solid PP
	Diameter over insulation	1.55 ± 0.1 mm
	Colour of insulation	White, Blue & Yellow, Orange
3.	**Filler**	
4.	**Bedding**	
	Material	Special TPE
5.	**Braided screen**	
	Coverage of braided screen	> 85%
	Foil under braid	Aluminium Polyster
	Coverage foil	100%
6.	**Sheath**	
	Material	PUR halogenfree, weld-splatter resistant, non-crosslinked
	Colour	Green RAL 6018
	Foil	non-woven foil under the sheath
	Nominal diameter over jacket	6.50 +/- 0.30 mm
	Colour	Green like RAL 6018

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REQUIREMENTS AND TEST METHODS

Electrical: ISO/IEC 11801 ed. 2.0, Cat.5 as a minimum.

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)	Max. Attenuation (dB/100m)	Min. Next (dB)	Min. PS-Next (dB)	Min. ELFEXT (dB/100m)	Min PS-ELFEXT (dB/100m)	Min. SRL (dB)
1	2.1	65	62	64	61	-
4	4	56	53	52	49	23
10	6.3	50	47	44	41	25
16	8	47	44	40	37	25
31.25	11.4	43	40	34	31	23.6
62.5	16.5	38	35	28	25	21.5
100	21.3	35	32	24	21	20.1

Mechanical and physical:

Flame resistance	FT2
Oil resistance	IEC 60811-2-1
Min bending radius	30 mm
Torsion test: +/- 360 degrees, 12x/min over 1mtr	> 2.000.000 cycles
Temperature range moving application and installing	- 5 to +50 ˚C
Temperature range fixed application	- 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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