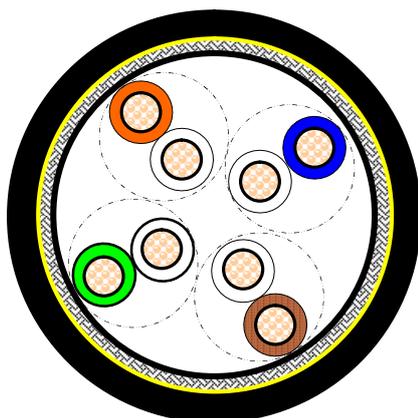


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### STANDARDS

- ISO/IEC 11801 2nd edition (September 2002). and ISO/IEC 24702
- EN 50173 – 1 (November 2002).
- TIA/EIA-568-B.2 (May 2001).

### CABLE CONSTRUCTION



#### Conductor:

Material	Stranded PACW
Construction	19X0.1 mm (26 AWG)

#### Insulation:

Material	PP (solid)
Diameter	1.0 mm +/- 0.05

#### Pair

Pair	2 twisted insulated conductors
Number of pairs	4, all twisted together Left hand lay.
Colour code pair 1	White / Blue & Blue
Colour code pair 2	White / Orange & Orange
Colour code pair 3	White / Green & Green
Colour code pair 4	White / Brown & Brown

#### Tape

Material	Polyester tape
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#### Foil-Screen

Material	Aluminium/polyester
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#### Braided Screen:

Material	tinned copper wires
Coverage	>80%

#### Sheath:

Material	PUR Flame-retardant and Halogen-free
Diameter	6.65 +/- 0.2 mm
wallthickness	0.6 mm



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Foil non-woven under the sheath  
 Colour Black

### ELECTRICAL CHARACTERISTICS

D.C. resistance conductor < 145 Ω/km  
 Resistance unbalance < 2 %  
 D.C. insulation resistance > 5000 MΩ.km  
 Dielectric strength cond. – cond. (2 sec.) 2.5 kV D.C.  
 Mutual capacitance < 56 nF/km  
 Capacitance unbalance < 1600 pF/km

#### High frequency

Velocity of propagation @ 4 – 100 MHz ≥ 0.6 c  
 Skew @ 1 – 100 MHz ≤ 40 ns/100m  
 Propagation delay @ 1 – 100 MHz ≤ 534 + 36/Vf ns/100m  
 Mean characteristic impedance (Zcm) @ 100 MHz 100 ± 5 Ω  
 Input impedance 1-100MHz 100 ± 15 Ω

Frequency	Insertion loss dB/100m (max)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
0.772	-	67	64			19.4
1	3.2	65.3	62.3	63.8	60.8	20
4	6.0	56.3	53.3	51.8	48.8	23
10	9.5	50.3	47.3	43.8	40.8	25
16	12.1	47.2	44.2	39.7	36.7	25
20	13.6	45.8	42.8	37.8	34.8	25
25	15.3	44.3	41.3	35.8	32.8	24.3
31.25	17.1	42.9	39.9	33.9	40.9	23.6
62.5	24.8	38.3	35.4	27.9	24.9	21.5
100	32	35.3	32.3	23.8	20.8	20.1

### MECHANICAL CHARACTERISTICS

Elongation at break conductor ≥ 10 %  
 Elongation at break insulation ≥ 100 %  
 Elongation at break sheath ≥ 100 %  
 Tensile strength sheath ≥15 Mpa  
 drag chain cycles (a=5m/s<sup>2</sup>, r = 60mm) > 2 million cycles

### ENVIRONMENTAL AND OVERALL CHARACTERISTICS

Maximum operating voltage 450 V D.C. and 300 V A.C.  
 Maximum continuous current per conductor (@25°C) 1.0 A rms

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Halogenfree acc to	IEC 60754-2
Oil resistant acc	IEC 60811-2-1
Maximum pulling tension	80 N
Minimum setting/bending radius	35 /70 mm
Temperature range during installation	-5 / +50 °C
Temperature range during operation	-40 / +80 °C
Flame propagation	FT-2
UL	AWM 20549



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.