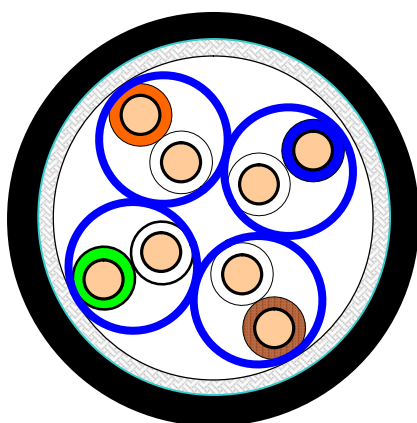


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### STANDARDS

- ISO/IEC 11801 Cat 7,
- EN 50173 – 1
- TIA/EIA-568-B.2 (May 2001).

### CABLE CONSTRUCTION



#### Conductor:

Material

stranded PACW

Construction

7x0.16 mm (26 AWG)

#### Insulation:

Material

Foam-skin PE

Diameter

1.05 mm +/- 0.05 mm

#### Screened 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

Foil-Screen each pair

Aluminium-polyester, Alu-side out

#### Braided Screen:

Material

tinned copper wires

Coverage

>65%

#### Sheath:

Material

PUR Flame-retardant and Halogen-free

Diameter

6.8 +/- 0.3 mm

Wall-thickness

0.5 mm

Colour

Black



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## ELECTRICAL CHARACTERISTICS

Low frequency and D.C.

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

High frequency		
Velocity of propagation	≥ 0.7*c	
Skew @100MHz	≤ 40	ns/100m
Propagation delay	≤ 534 + 36/Vf	ns/100m
Mean characteristic impedance (Z <sub>cm</sub> )		
@ 100 MHz	100 ± 5	Ω
Input impedance 1-600 MHz	100 ± 15	ohm
Transfer Impedance (Z <sub>T</sub> )		
@ 10 MHz	< 5	mΩ/m

Frequency	Insertion loss dB/100m (max)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
1	2.7	80	77			
4	5.5	80	77	58	55	23
10	8.5	80	77	50	47	25
16	10.8	80	77	46	43	25
20	12.1	80	77	44	41	25
31.25	15.2	80	77	40	37	23.6
62.5	27.8	75.1	72.1	34	31	21.5
100	27.8	72.4	69.4	30	27	20.1
200	40.1	67.9	64.9	24	21	18
300	50	65.3	62.3	20	17	17.3
600	73.3	60.8	57.8	14	11	17.3

## MECHANICAL CHARACTERISTICS

Elongation at break conductor	≥ 10 %
Elongation at break insulation	≥ 100 %
Elongation at break sheath	≥ 100 %
Tensile strength sheath	≥15 Mpa

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**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
Halogenfree acc to	IEC 60754-2
Oil resistant acc	IEC 60811-2-1
Maximum pulling tension	80 N
Minimum bending / setting radius	65 / 30 mm
Temperature range during installation	-5 / +50 °C
Temperature range during operation	-40 / +80 °C
Flame propagation	FT-2



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.