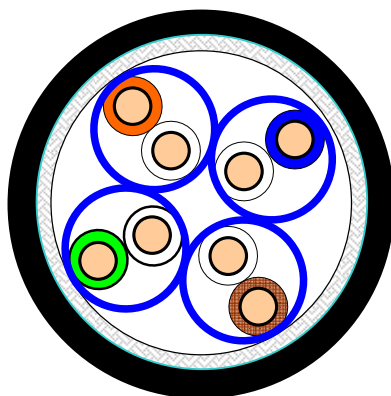


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STANDARDS

- 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

1.05mm +/- 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 (Zcm)		
@ 100 MHz	100 ± 5	Ω
Input impedance 1-600 MHz	100 ± 15	ohm
Transfer Impedance (Z _T)		
@ 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	80	77	23
10	8.5	80	77	74	71	25
16	10.8	80	77	69.9	66.9	25
20	12.1	80	77	68.0	65.0	25
31.25	15.2	80	77	64.1	61.1	23.6
62.5	27.8	75.1	72.1	58.1	55.1	21.5
100	27.8	72.4	69.4	54.0	51.0	20.1
200	40.1	67.9	64.9	48.0	45.0	18
300	50	65.3	62.3	44.5	41.5	17.3
600	73.3	60.8	57.8	38.4	35.4	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
Halogen free 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	0 / +50 °C
Temperature range during operation	-20 / +80 °C
Flame propagation	FT-2
UL	AWM 20549



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.