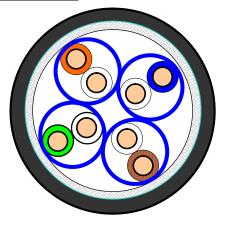


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STANDARDS

- ISO/IEC 11801 and ISO/IEC 24702
- EN 50173 1
- TIA/EIA-568-B.2 (May 2001).

CABLE CONSTRUCTION



CABLE CONSTRUCTION

Condu	ictor		
	Material	Solid bare copper	
	Diameter	AWG 23	
Insula	tion		
	Material	Foam-Polyethylene	
	Diameter over insulated conductor	1.45 ± 0.05	mm
Pair			
	Pair	2 twisted insulated conductors with overall foil	
	Number of pairs	4, all twisted together	
	Colour code pair 1	White & Blue	
	Colour code pair 2	White & Orange	
	Colour code pair 3	White & Green	
	Colour code pair 4	White & Brown	
Shield	ing foil over element		
	Material	Laminated Aluminium / Polyester	
	Position aluminium	Outside	
Braid			
	Material	Solid tinned copper	
	Coverage	≥ 65	%
Sheat	n		
	Material	PUR halogenfree and flamretardent	
	Diameter	8.0 ± 0.3	mm



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Electrical characteristics

L 100			
Low	frequency and D.C.		
	D.C. resistance conductor	< 75	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 – 600 MHz	≥ 0.6	С
	Skew		
	@ 1 – 600 MHz	≤ 40	ns/100m
	Propagation delay		
	@ 1 – 600 MHz	≤ 534 + 36/Vf	ns/100m
	Longitudinal attenuation		
	@ 4 – 1000 MHz	≤ 1.8*Vf+0.01*f+0.2/Vf	dB/100m
	Near end cross talk (NEXT)		
	@ 1 – 31.25 MHz	≥ 80	dB
	@ 31.25 – 1000 MHz	≥ 102.4 – 15 log(f)	dB
	Power sum near end cross talk (PSNEXT)		
	@ 1 – 31.25 MHz	≥ 77	dB
	@ 31.25 – 1000 MHz	≥ 99.4 – 15 log(f)	dB
	Equal level far end cross talk (ELFEXT)		
	@ 1 – 5 MHz	≥ 80	dB
	@ 5 – 1000 MHz	≥ 94.0 – 20 log(f)	dB
	Power sum equal level far end cross talk (PSELFEXT)		
	@ 1 – 5 MHz	≥ 77	dB
	@ 5 – 1000 MHz	≥ 91.0 – 20 log(f)	dB
	Attenuation cross talk ratio (ACR)		
	@ 4 – 31.25 MHz	≥ 80 - (1.85*Vf+0.01*f+0.2/Vf)	dB
	@ 31.25 – 1000 MHz	\geq (102.4 - 15 log(f)) - (1.8*Vf+0.01*f+0.2/Vf)	dB
	Power sum attenuation cross talk ratio (PSACR)		
	@ 4 – 31.25 MHz	≥ 77 - (1.8*Vf+0.01*f+0.2/Vf)	dB
	@ 31.25 – 1000 MHz	\geq (99.4 - 15 log(f)) - (1.8*Vf+0.01*f+0.2/Vf)	dB
	Input impedance open/short (Zo/s)		
	@ 4-100 MHz	100 ± 15	Ω
	@ 100 – 250 MHz	100 ± 22	Ω
	@ 250 – 600 MHz	100 ± 25	Ω
	Mean characteristic impedance (Zcm)		
	@ 100 MHz	100 ± 5	Ω

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Return Loss (RL)				
@ 4 ≤ f ≤ 10 MHz	≥ 20 + 5 log (f)	dB		
@ 10 ≤ f ≤ 20 MHz	≥ 25	dB		
@ 20 ≤ f ≤ 250 MHz	≥ 25 – 7 log (f/20)	dB		
@ 250 ≤ f ≤ 600 MHz	≥ 17.3	dB		
@ 600 ≤ f ≤ 1000 MHz	≥ 25 – 7 log (f/20)	dB		
Coupling attenuation Type II				
@ 30 – 100 MHz	> 80	dB		
@ 100 – 1000 MHz	> 80 – 20 log(f/100)	dB		
Transfer Impedance (Z _T)				
@ 1 MHz	< 5	mΩ/m		
@ 10 MHz	<5	mΩ/m		
@ 30 MHz	< 30	mΩ/m		
@ 100 MHz	< 100	mΩ/m		

MECHANICAL CHARACTERISTICS

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

ENVIRONMENTAL AND OVERALL CHARACTERISTICS

Maximum operating voltage	30 V A.C.
Maximum continuous current per conductor (@25°C)	1.4 A rms
Halogenfree acc to	IEC 60754-2
Smoke density	IEC 61034
Oil resistant acc	IEC 60811-2-1
Maximum pulling tension	80 N
Minimum bending / setting radius	80 / 40 mm
Temperature range during installation	-5 / +50 °C
Temperature range during operation	-40 / +70 °C
Flame propagation	According 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.

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