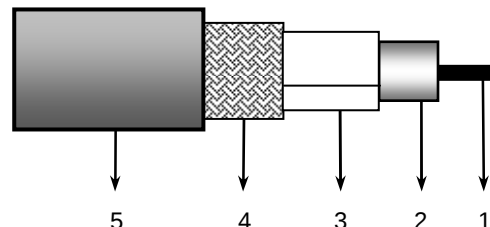


CTF125

Infrastructure Cables
CATV Drop Cables
Coax CTF125 Cu PVC



Applications

- Coaxial cable used in cable broadband communication networks designed according European Standard EN 50117-1
- Operating frequencies between 5 and 3000 MHz

General Standards

- European standard EN 50117-1 and EN 50117-2-4
- European standard EN 50290-2-20

Construction & Dimensions

1. Inner conductor	
Material	solid bare copper
Diameter	1.20 mm ± 0.03 mm
2. Dielectric	
Material	Gas injected LDPE
Diameter	5.4 mm ± 0.15 mm
3. Foil	
Material	Copper-polyester foil
4. Braid	
Material	bare copper
Diameter	6.2 mm ± 0.2 mm
Coverage braid	50 % ± 5 %
5. Sheath	
Material	PVC
Diameter	7.8 mm ± 0.2 mm

Mechanical characteristics

Parameter	Specification	Unit
Tensile strength of sheath	≥ 12.5	N/mm ²
Elongation at break of sheath	≥ 150	%
Adhesion dielectric @25mm	10 – 100	N
Storage/operating temperature	-40 to +70	°C
Minimum installation temperature	-5	°C
Minimum static bend radius	40	mm

Electrical characteristics

Test methods in accordance with European standard EN 50117-1

Parameter	Specification	Unit
Mean characteristic impedance	75 ± 3	Ω
Regularity of impedance	> 40 dB or <1%	
DC loop resistance	≤29.5	Ω/km
DC resistance inner conductor	≤ 16	Ω/km
DC resistance outer conductor	≤ 13.5	Ω/km
Capacitance	54 ± 2	pF/m
Velocity ratio	81% ± 2%	
Insulation resistance	≥ 10 ⁴	MΩ.km
Voltage test of dielectric	2	kVdc
Screening Attenuation after flexing		
	30-1000 MHz	≥ 75
	1000-2000 MHz	≥ 65
	2000-3000 MHz	≥ 55
Return loss at		
	5-30 MHz	≥ 23
	30-470 MHz	≥ 23
	470-1000 MHz	≥ 20
	1000-2000 MHz	≥ 18
	2000-3000 MHz	≥ 16
* Maximum 3 peak values 4 dB lower then specified		

Attenuation at:	Nominal	Unit
5 MHz:	1.5	dB/100m
50 MHz:	3.5	dB/100m
100 MHz:	5.0	dB/100m
200 MHz:	7.5	dB/100m
460 MHz:	11.5	dB/100m
800 MHz:	14.9	dB/100m

Attenuation at:	Nominal	Unit
860 MHz:	15.5	dB/100m
1000 MHz:	17.0	dB/100m
1750 MHz:	22.8	dB/100m
2150 MHz:	26.0	dB/100m
2400MHz:	28.0	dB/100m
3000MHz:	32.0	dB/100m



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.