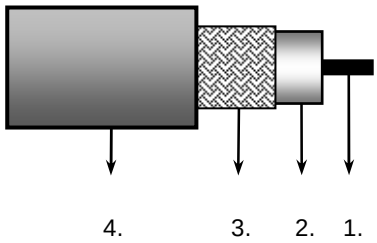
MRG2132

Infrastructure Cables
Radio-frequency coax
Coax RG213 type LSNH



Applications

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

General Standards

- European standard EN 50117-1 and EN 50117-2-1
- European standard EN 50290-2-20
- International Standard IEC 1196

Construction & Dimensions

1. Inner conductor	
Material	stranded bare copper
Construction	7 x 0.75 mm
Diameter	2.25 mm ± 0.03 mm
2. Dielectric	
Material	Solid PE
Diameter	7.25 mm ± 0.2 mm
3. Braid	
Material	Copper
Diameter	8.0 mm ± 0.25 mm
Coverage braid	92 % ± 5 %
4. Sheath	
Material	LSNH/FRNC
Diameter	10.3 mm ± 0.3 mm

Mechanical characteristics

Parameter	Specification	Unit
Tensile strength of sheath	≥ 9.0	N/mm²
Elongation at break of sheath	≥ 125	%
Storage/operating temperature	-30 to + 70	ºC
Minimum installation temperature	-5	ºC
Minimum static bend radius	50	Mm
Sheath material UV resistant	Yes	
Corrosivity of fire gases according IEC 60754-2	Pass	
Flame propagation according IEC 60332-1-2	Pass	

Electrical characteristics

Parameter	Specification	Unit
Mean characteristic impedance	50 ± 2	Ω
Regularity of impedance	> 46	dB
DC resistance inner conductor	≤ 6.0	Ω/km
DC resistance outer conductor	≤ 5.5	Ω/km
Capacitance	100 ± 3	pF/m
Velocity ratio	0.66	
Insulation resistance	$>10^4$	MΩ.km
Voltage test of dielectric	>3	kVdc
Return loss at		
100-400 MHz	≥ 28.5 [a]	dB
400-900 MHz	≥ 23.5[a]	dB
[a] Maximum 3 peak return loss values up to 4dB lower are permissible		

Attenuation at:	Nominal	Unit
5 MHz:	1.5	dB/100m
50 MHz:	4.6	dB/100m
100 MHz:	6.6	dB/100m
230 MHz:	10.4	dB/100m
400 MHz:	14.1	dB/100m
800 MHz:	21.1	dB/100m

Attenuation at:	Nominal	Unit
862 MHz:	22.1	dB/100m
1000 MHz:	24.1	dB/100m
1350 MHz:	29.0	dB/100m
1750 MHz:	34.3	dB/100m
2150 MHz:	39.1	dB/100m
2400 MHz:	42.4	dB/100m

Maximum attenuation is 10 % higher.

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.