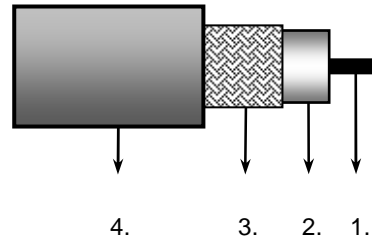


MRG2130

Infrastructure Cables Radio-frequency coax Coax RG213 type PVC



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 | PVC |
| Diameter | 10.3 mm ± 0.3 mm |

Mechanical characteristics

| Parameter | Specification | Unit |
|---|---------------|-------------------|
| Tensile strength of sheath | ≥ 12.5 | N/mm ² |
| Elongation at break of sheath | ≥ 150 | % |
| Storage/operating temperature | -40 to + 70 | °C |
| Minimum installation temperature | -5 | °C |
| Minimum static bend radius | 50 | mm |
| 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 |
| | 400-900 MHz | ≥ 23.5 ^a |
| ^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.