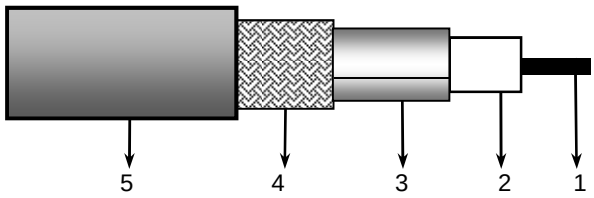
70084

Low Loss Serial Digital Video coax RG11/U bonded-Al-foil Cu PVC HDTV Duobond II 80% TC Braid



Applications

- Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications.
- The cable is suitable for indoor use.
- Use of 1080p/50 applications

General Standards

- SDTV/HDTV serial digital standard compliant
- European standard EN 50117-1
- European standard EN 50290-2-20

Construction & Dimensions

1. Inner conductor	
Material	Solid bare copper
Dimension	1.63 mm ± 0.03 mm
2. Dielectric	
Material	Gas injected PE
Diameter	7.11 mm ± 0.15 mm
3. Foil	
Material	AL-PET-AL bonded to dielectric
Foil overlap:	≥ 2 mm
4. Braid	
Material	Tinned copper
Coverage	80 ± 5 %
Nominal diameter screen:	7.95 mm
5. Jacket	
Material	PVC
Diameter	10.2 mm ± 0.2 mm

Mechanical characteristics

Parameter	Specification	Unit
Tensile strength	≥ 9.0	N/mm2
Elongation at break	≥ 125	%
Maximum tensile strength of cable	650	N
Minimum static bend radius	100	mm

Electrical characteristics

Parameter	Specification	Unit
Mean characteristic impedance	75 ± 3	Ω
Nominal DC resistance inner conductor	8.2	Ω/km
Nominal DC resistance outer conductor	5.7	Ω/km
Capacitance	53 ± 2	pF/m
Velocity of propagation	0.84	%
Nominal delay:	4.0	ns/m
Insulation resistance	≥ 10^4	MΩ.km
Dielectric strength	2	kVdc
Return loss at		
5 – 1600 MHz	≥ 23	dB
1600 – 4500 MHz	≥ 21	dB

Attenuation at:	Nominal	Unit
1 MHz:	0.5	dB/100m
10 MHz:	1.5	dB/100m
71.5 MHz:	3.6	dB/100m
135 MHz:	4.8	dB/100m
270 MHz:	6.9	dB/100m
360 MHz:	8.0	dB/100m
540 MHz:	10.0	dB/100m

Attenuation at:	Nominal	Unit
720 MHz:	11.7	dB/100m
750 MHz:	12.0	dB/100m
1000 MHz:	14.1	dB/100m
1500 MHz:	18.0	dB/100m
2250 MHz:	22.6	dB/100m
3000 MHz:	26.9	dB/100m
4500 MHz:	34.1	dB/100m

Maximum attenuation is 10 % higher.

Environmental and overall characteristics

Parameter	Specification	Unit
Storage/operating temperature	-30 to +70	ºC
Minimum installation temperature	-5	ºC
Resistance to flame propagation according IEC 60332-1	Pass	

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.