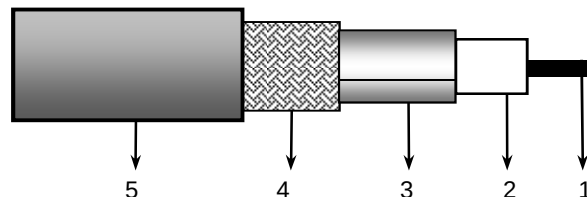


70082NH

**Low Loss Serial Digital Video coax
 RG6/U bonded-Al-foil Cu FRNC 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 UV-resistant and suitable for indoor and outdoor 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 | bare copper |
| Dimension | 1.02 mm ± 0.03 mm |
| 2. Dielectric | |
| Material | gas injected PE |
| Diameter | 4.57 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 | 5.3 mm |
| 5. Jacket | |
| Material | LSNH/FRNC |
| Diameter | 6.96 mm ± 0.2 mm |

Mechanical characteristics

Parameter	Specification	Unit
Tensile strength	≥ 9.0	N/mm ²
Elongation at break	≥ 125	%
Maximum tensile strength of cable	300	N
Minimum static bend radius	70	mm

Electrical characteristics

Parameter	Specification	Unit
Mean characteristic impedance	75 ± 3	Ω
Nominal DC resistance inner conductor	21	Ω/km
Nominal DC resistance outer conductor	9.7	Ω/km
Capacitance	53 ± 2	pF/m
Velocity of propagation	0.82	
Nominal delay:	4.07	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:	0.8	dB/100m
10 MHz:	2.4	dB/100m
71.5 MHz:	5.6	dB/100m
135 MHz:	7.4	dB/100m
270 MHz:	10.4	dB/100m
360 MHz:	12.1	dB/100m
540 MHz:	15.0	dB/100m

Attenuation at:	Nominal	Unit
720 MHz:	17.5	dB/100m
750 MHz:	17.9	dB/100m
1000 MHz:	21.0	dB/100m
1500 MHz:	26.0	dB/100m
2250 MHz:	32.0	dB/100m
3000 MHz:	38.0	dB/100m
4500 MHz:	48.0	dB/100m

Maximum attenuation is 10 % higher.

Environmental and overall characteristics

Parameter	Specification	Unit
Storage/operating temperature	-30 to +70	°C
Minimum installation temperature	-5	°C
Smoke density acc. to IEC 61034-1/2 & EN50268-1/2; transmittance	> 60	%
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; pH	> 4.3	
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2;	< 10	μS/mm
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.