

**RG-11U,  
Sweep Tested 1 ~ 12000 MHz  
75 Ohm Coaxial Cables for HDTV, HFFR Sheath**

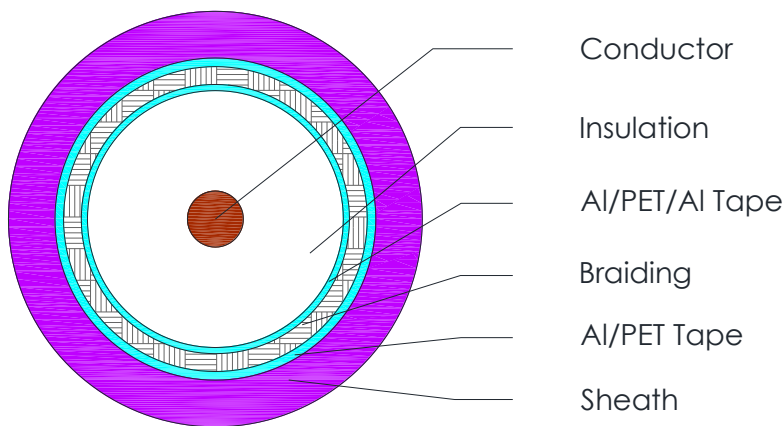


**C15022**

**Applications**

SMPTE 2082-1 12 Gb/s UHD TV, SMPTE 2081-1 6 Gb/s UHD TV, SMPTE 424M 3 Gb/s HD-SDI 1080p

**Cross Section Drawing**



**Design**

Unit	Properties
Conductor	Solid Silver Copper
Dielectric	Foamed Polyethylene
Screen	Aluminium/Polyester/ Aluminium foil 100% coverage
Braid	Tinned Copper wire
	Aluminium/Polyester foil 100% coverage
Sheath Material	Halogen-Free Flame Retardant (HFFR) Standard Colour: Purple
Standard Put Up Length	305 or 500 meters

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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**Physical Characteristics**

Part Number	C1380
Nom. Diameter Conductor (mm)	1.63
Nom. Diameter Dielectric (mm)	7.11
Nom. Overall Diameter (mm)	10.2
Coverage Braid (%)	95
Max. Recommended Pulling Tension (N)	644
Min. Bend Radius (Install) (mm)	100
Weight (kg/km)	129
Operating temperature (°C)	-30 to +75

**Electrical Characteristics (at 20°C)**

Part Number	C1380
Impedance (Ohm)	75 ± 3
Max. DC Resistance Conductor (Ω/km)	8.8
Max. DC Resistance Screen (Ω/km)	5.6
Nominal Capacitance (pF/m)	50.8
Nominal Inductance (μH/m)	0.32
Velocity of Propagation (%)	85
Nominal Time Delay (ns/m)	3.94
Min. Return Loss 1 to 1000 MHz (Db)	23
Min. Return Loss 1000 to 2000 MHz (Db)	22
Min. Return Loss 2000 to 3000 MHz (Db)	16
Min. Return Loss 3000 to 4500 MHz (Db)	15
Voltage Rating (V RMS)	300

**Nominal Attenuation in dB/100m**

MHz	1	3.58	5	6	7	10	12	25	55	67.5	71.5
Value	0.53	0.99	1.12	1.22	1.28	1.48	1.61	2.20	3.12	3.41	3.51
MHz	88.5	100	135	143	180	270	360	540	720	750	1000
Value	3.84	4.07	4.63	4.76	5.28	6.43	7.45	9.22	10.73	10.95	12.76
MHz	1500	2000	2250	3000	4500	6000	12000				
Value	15.84	18.53	19.74	23.18	28.89	34.27	53.74				

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**Reference Standards**

IEC 61196
(BS) EN 50117
(BS) EN 50290-2
IEC 60332-3-24 (Fire Retardant)
IEC 61034 (Low Smoke), IEC 60754-1&-2
RoHS directives