

# 5 Bundled Miniature RGB Coaxial Cables

## PVC or HFFR Sheath

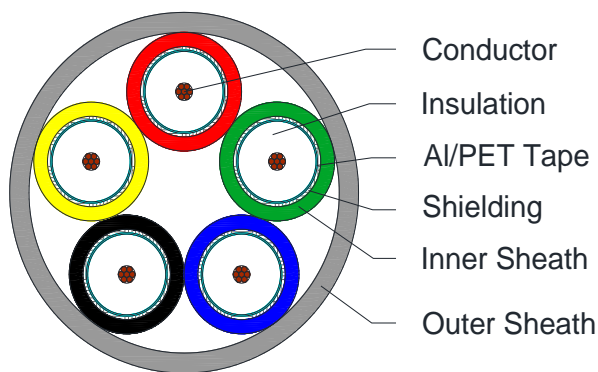


C1051, C1150, C1151, C1595

### Applications

Used in connection for CCTV or computer screen.

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Solid Bare or Flexible Tinned copper wire
Insulation	Foam HDPE
Inner Screen	Al-PET Foil or Al/PET/Al Foil, no flipping foil
Shielding	Tinned copper wire
Inner Sheath	C1150, C1595 Colour: Red, Green, Blue, White, Yellow. C1051, C1151 Colour: Red, Green, Blue, Black, Yellow.
Cabling	5 bundled coax cabled
Outer Screen	Al-PET Foil only for C1595
Outer sheath	Halogen Free, Flame Retardant (HFFR) Standard Colour: Purple or Polyvinyl Chloride (PVC) Standard Colour: Grey Black for C1595
Standard Put Up Length	305 metres

\*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	C1595	C1051	C1150	C1151
Sheath Material	PVC	PVC	HFFR	PVC
Conductor Material	Flexible TC	Flexible TC	Solid BC	Flexible TC
Numbers of coax cores	5			
Nom. Conductor Size (AWG)	30	26	23	24
Conductor configuration (mm)	7*0.10	7*0.16	0.58	7*0.20
Nom. Insulation Diameter (mm)	1.42	1.93	2.60	2.79
Inner Screen Material	Al/PET/Al	Al/PET	Al/PET	Al/PET
Inner Screen Coverage (%)	115			
Braiding Coverage (%)	90	95		
Nom. Inner Sheath Diameter (mm)	2.60	2.67	4.04	4.11
Outer Screen Coverage (%)	115	-	-	-
Nom. Overall Diameter (mm)	8.60	9.07	13.5	13.61
Operating Temperature (°C)	-20 to +60			
Min. Bend Radius (install) (mm)	86	136	200	204
Nominal Cable Weight (kg/km)	93.6	108	177	185

### Electrical Characteristics at 20°C

Part Number	C1595	C1051	C1150	C1151
Max. DC Conductor Resistance (Ohm/km)	377	150	66.0	135
Max. DC Shield Resistance (Ohm/km)	35.7	40	24.9	22.6
Impedance ( $\Omega$ )	75			
Capacitance (pF/m)	56.7	54.8	54.1	56.7
VoP (%)	78	81	83	83
Nom. Delay (ns/m)	4.26	-	-	-
Min. Return Loss from 10MHz to 40MHz (dB)	25	-	-	-

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## Attenuation at 20°C

Frequency (MHz)	Nom. Attenuation (Max. attenuation=Nominal +10%) (dB/100m)			
	C1595	C1051	C1150	C1151
1	2.6	1.7	1.31	1.3
5	4.9	3.9	-	2.8
10	7.2	5.5	3.93	-
20	-	7.8	-	-
30	13.1	-	-	6.7
50	17.7	12.3	-	8.5
71.5	-	13.8	10.16	-
100	26.9	17.6	-	12.2
135	-	20.6	12.46	-
200	41.0	25.4	-	17.7
270	-	29.9	17.70	-
360	-	-	20.33	-
400	62.0	37.3	-	25.3
540	-	-	25.25	-
700	86.9	-	-	34.2
720	-	-	29.84	-
750	-	53.8	31.15	-
900	101.0	-	-	39.0
1000	107.5	64.0	34.43	41.2
1500	-	-	42.62	-
2500	-	-	55.41	-
3000	-	143.0	60.66	94.7
4500	-	-	80.66	-

## Reference Standards

EN 50290-2	(BS) EN 50117
IEC61034 for HFFR Cable	IEC 61196
IEC60754-1 &-2 for HFFR Cable	IEC60332-1
RoHS directives	