TR-165
Coaxial Cables for Underground

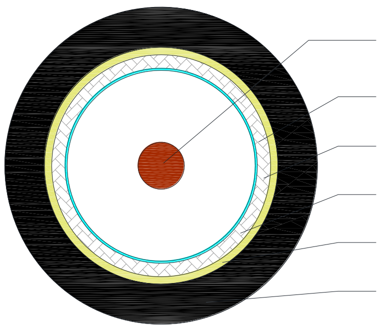
B3 International

C6143

Applications

This cable is made for underground use, free of deformations and degradations that could affect the quality of the transported signal.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Bare Copper
Dielectric	Foamed Polyethylene
Screen	Aluminium/ Polyester foil 100% coverage
Braid	Bare Copper Wire
Filling	Petrol-Jelly
Sheath	Polyethylene (PE) Standard colour: Black
Standard Put Up Length	305metres

*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

Coax Type	TR-165
Part Number	C6143
Nom. Diameter Conductor(mm)	1.63
Nom. Diameter Dielectric	7.2
Braiding Construction (mm)	16×8×0.15
Coverage Braid (%)	70
Nom. Overall Diameter(mm)	10.1
Operating Temperature (°C)	-10 to 60
Min. Bend Radius (install)(mm)	50

Electrical Characteristics at 20°C

Coax Type	TR-165
Part Number	C6143
Impedance(Ohm)	75 ± 3
Max. DC Resistance Conductor (Ω/km)	9.0
Max. DC Resistance Screen (Ω/km)	7.2
Nominal Capacitance (pF/m)	53
Velocity of Propagation (%)	83
Min. Screening attenuation @ 1GHz (dB)	85
Max. Transfer impedance (5-30MHz)(mOhm/m)	5

Nominal Attenuation in dB/100m

MHz	5	47	90	200	550	800	1000	1350	1750	2050	2300
Value	1.0	3.0	4.0	6.0	9.0	12.0	13.0	15.0	18.0	19.0	20.0

Reference Standards

(BS) EN 50290-2	RoHS directives
(BS) EN 50117-2-5	