

Dimmer & Switch Control Cable

18AWG, PVC or HFFR Sheath

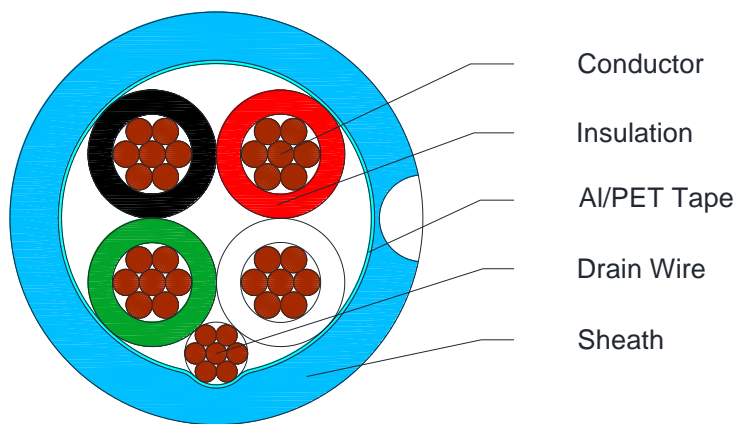


C1678, C1679, C1680, C1681

Applications

Used for Low voltage dimmer & switch control applications.

Cross Section Drawing



Design

Unit	Properties
Conductor	Stranded annealed bare copper wires
Insulation	Semi-rigid PVC or HFFR Core1, Red Core2, Black Core3, White Core4, Green
Assembly	2 or 4 shielded conductors and drain wire cabled on a common axis
Shield	Aluminium/mylar tape bond to sheath 100% Coverage
Sheath	PVC or HFFR 2 Core, Light Blue/Pink stripe 4 Core, Light Blue/White stripe
Standard Put Up Length	305Meters

*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	C1678	C1679	C1680	C1681
Insulation and Sheath material	PVC		HFFR	
Core No.	2	4	2	4
Nom. Conductor Size (AWG)	18	18	18	18
Nom. Conductor Construction (mm)	7×0.40	7×0.40	7×0.40	7×0.40
Nom. Insulation thickness (mm)	0.38	0.38	0.38	0.38
Nom. Insulation Diameter (mm))	1.95	1.95	1.95	1.95
Screen Coverage (%)	115	115	115	115
Drain wire construction (mm)	7×0.32	7×0.32	7×0.32	7×0.32
Nom. Sheath thickness (mm)	0.73	0.68	0.73	0.68
Nom. Overall Diameter (mm)	5.40	6.10	5.40	6.10
Cable Weight (kg/km)	62	103	62	103
Bending radius: Unloaded (mm)	54	61	54	61
Bending radius: Loaded (mm)	108	122	108	122
Pull tension (N)	169	294	169	294

Electrical Characteristics at 20°C

Part Number	C1678	C1679	C1680	C1681
Impedance (Ohm)	45.4	45.4	50	55
DC resistance (Ω/km)	20.0	20.0	20.0	20.0
Mutual Capacitance (pF/m)	143.7	143.7	135	130
Voltage rating (V)	300			
Velocity of Propagation (%)	55	-	53	53
Maximum current (A) at 25°C	3.75	-	3.75	-

Reference Standards

EN 50290-2-22	IEC 60754 (only for HFFR)
EN 50290-2-27	IEC 60332-3-24
IEC 60228	RoHS directives
IEC 61034 (only for HFFR)	