

AVA5-50FX Coaxial Cable

7/8in, Corrugated Copper, PE Sheath

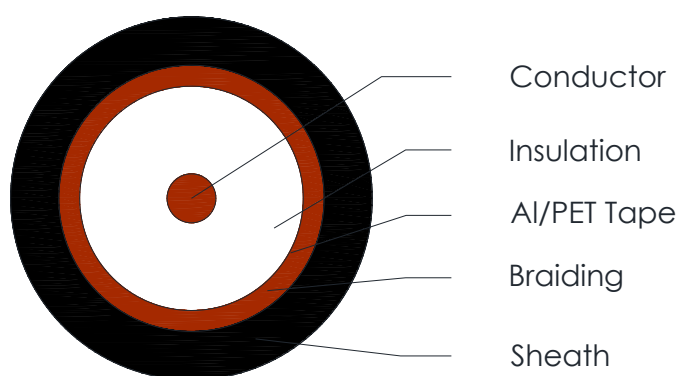


C1904

Application

7/8" Feeder cables LDF.

Cross Section Drawing



Design

Unit	Properties
Inner Conductor	Solid Bare Copper
Dielectric	Foamed Polyethylene
Outer Conductor	Corrugated Copper
Sheath Material	Polyethylene (PE) Standard Color: Black
Standard Put Up Length	305 or 500 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	C1904
Nominal Size	7/8in
Nom. Diameter Conductor(mm)	9.45
Nom. Diameter Dielectric	24.13
Nom. Outer Conductor Diameter (mm)	25.4
Nom. Overall Diameter(mm)	28.0
Operating Temperature (°C)	-40°C to +60°C
Min. Bend Radius, Single Bend (mm)	127
Min. Bend Radius, Multiple Bend (mm)	254
Nominal Cable Weight (kg/km)	430
Tensile Strength (N)	1558

Electrical Characteristics 20°C

Impedance (ohms)	Nom. DC Resistance, inner conductor (ohms/km)	Nom. DC Resistance, outer conductor (ohms/km)	Nom Capacitance Conductor to Shield (pF/m)	Inductance (μH/m)	Nom. Velocity Of Propagation (%)	DC. Voltage test (VRMS)	Jacket spark test Voltage (VRMS)	Peak Power (KW)
50 ± 1	2.888	1.313	73.0	0.184	90	6000	8000	91.0

Nominal Return Loss/VSWR

Frequeny Band (MHz)	VSWR	Return Loss (dB)
680-800	1.13	24.3
800-960	1.13	24.3
1700-2200	1.13	24.3

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Nominal Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Frequency (MHz)	Attenuation (dB/100m)
0.5	0.08	700	3.235
1.0	0.113	800	3.478
1.5	0.138	824	3.534
2.0	0.16	894	3.694
10	0.359	960	3.841
20	0.51	1000	3.927
30	0.627	1218	4.377
50	0.814	1250	4.440
85	1.068	1500	4.912
88	1.088	1700	5.268
100	1.162	1800	5.439
108	1.209	2000	5.771
150	1.433	2100	5.993
174	1.548	2200	6.091
200	1.665	2300	6.247
204	1.682	2500	6.551
300	2.059	2700	6.845
400	2.398	3000	7.273
450	2.553	3400	7.819
500	2.70	3700	8.213
512	2.735	4000	8.596
600	2.977	5000	9.807

Reference Standards

(BS) EN 50290-2
(BS) EN 50117
IEC 61196
RoHS directives