

We offer solutions!

Raison Enterprise Co. Ltd.

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2-2, Alley 3, Lane 387 Nei-Hu Rd. Sec. 1-Taipei, Taiwan

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10D-FBV Coaxial Cable

CONSTRUCTION OF CABLE

Part Designation	Material	Outer Diameter (mm)
Inner conductor	Solid Copper Claded Aluminum Wire	Nominal 3.61
Insulation	Foam polyethylene	Nominal 9.41
Shield	Aluminum/PE Tape	Nominal 9.58
Outer conductor	0.16mm Aluminum Alloy Wire	Nominal 10.2
Single braid	Carriers 24 Ends 9 Picks/inch 9.6(Approx.) Coverage 95%(Approx.)	
Jacket	Black PE	Nominal 12.6

CABLE MARKING

Description	Content
Cable marking	CFD500E-LW LOW LOSS 50 OHM COAXIAL CABLE COMMATE/PEWC 10D

ENVIRONMENTAL SPECIFICATION

Description	
Installation temperature range	-40~85
Storage temperature range	-70~85
Operating temperature range	-40~85

MECHANICAL SPECIFICATION

Description	Spec.
Minimum bend radius	31.8mm
Cable Weight	0.13kg/m
Tensile force	118.0kg

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ELECTRICAL PROPERTIES (AT 20)

Description	Spec.
Velocity of propagation	Nom. 86%
Conductor resistance Inner conductor	Nom. 2.69 /km
Voltage withstanding	3.0KV rms/1min
Impedance	Nom. 50 @200MHz
Capacitance	Nom. 77 pF/m
Insulation resistance	Min. 1,000M -km
VSWR	Max. 1.3 @30~2500MHz
<u>Attenuation</u>	
Frequency	Attenuation
MHz	dB/100M, nom.
30	1.8
50	2.3
150	4.0
220	4.9
450	7.1
900	10.3
1500	13.6
1800	15.0
2000	15.9
2500	18.0
5800	29.1

Maximum value is not exceeded 115% of nominal value.

- Both ends of the cable shall be effectively sealed to prevent the entrance of moisture.
- The cable shall be supplied in 100M plywood drum or 210M wooden drum.