



# RAISON ENTERPRISE CO., LTD.

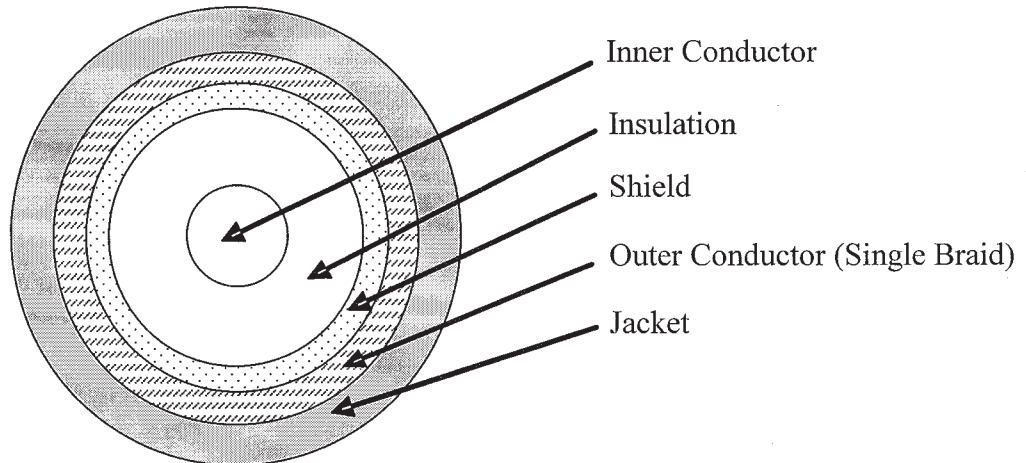
(11491) No.12, Lane321, Yangguang St, Neihu Dist, Taipei, Taiwan

## COAXIAL CABLE CFD400FR-LW

### CONSTRUCTION OF CABLE

Part Designation	Material	Outer Dia. (nom.) mm
Inner conductor	Solid Copper Claded Aluminum Wire	2.74
Insulation	Foam polyethylene	7.24
Shield	Aluminum/PE Tape	7.35
Outer conductor Single braid	Aluminum alloy wire Coverage 92%(Approx.)	8.0
Jacket	Black FRPE	10.2

Fig.1 Cross-section of cable



### CABLE MARKING

Content
“CFD400FR-LW LOW LOSS 50 OHM COAXIAL CABLE COMMATE/PEWC 8Dr”

### ENVIRONMENTAL SPECIFICATION

Property	°C
Storage temperature range	-70 ~ +85
Operating temperature range	-40 ~ +85



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## MECHANICAL SPECIFICATION

Description	Unit	Spec. value
Minimum bend radius	mm	25.4
Nominal cable weight	kg/m	0.1
Maximum tensile strength	kgf	72.6

## ELECTRICAL PROPERTIES (AT 20°C)

Description	Unit	Spec. value
Velocity of propagation (Nom.)	%	85%
Conductor resistance Inner conductor (Nom.)	$\Omega$ /km	4.56
Voltage withstanding	AC.V/1min	2500
Impedance @200MHz (Nom.)	$\Omega$	50
Capacitance (Nom.)	pF/m	78
VSWR (Max.) * Note 1		1.5
Attenuation (Nom.) * Note 2		
Frequency MHz	Unit	Spec. value
30	dB/100M	2.4
50		3.0
150		5.0
220		6.1
450		8.9
900		12.8
1500		16.8
1800		18.6
2000		19.6
2500		22.2
5800		35.5

**Note 1. :** VSWR will be in the frequency range (810~960、1300~1400、1500~1600、1710~1885、1915~2025、2100~2200、2400~2500 MHz), and the other test frequency only for reference.

**Note 2. :** Maximum value shall be not exceeded 115% of the nominal value.



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## PROPERTIES FOR RoHS

Chemical substances	Limit of ppm (mg/kg)	Method
Lead (Pb)	<1000	IEC 62321
Cadmium (Cd)	<100	
Mercury (Hg)	<1000	
Hexavalent chromium (Cr <sup>+6</sup> )	<1000	
Polybrominated biphenyl (PBBs)	<1000	
Polybrominated diphenyl ethers (PBDEs)	<1000	

## PACKING

1. Both ends of the cable shall be effectively sealed to prevent the entrance of moisture.
2. Coil, plywood reel or wooden drum will be used by options.

\*\*\*\*\* END OF SPECIFICATION \*\*\*\*\*