



PACIFIC ELECTRIC WIRE & CABLE CO., LTD.

26F, NO. 95, SEC. 2, DUNHUA S RD, TAIPEI CITY 106, TAIWAN, R.O.C

12D-FBV (CFD600E-LW-BB) Coaxial Cable

CONSTRUCTION OF CABLE

Part Designation	Material	Outer Diameter (mm)
Inner conductor	Solid Copper Claded Aluminum Wire	Nominal 4.47
Insulation	Foam polyethylene	Nominal 11.57
Shield	Aluminum/PE Tape	Nominal 11.74
Outer conductor Single braid	34 AWG Aluminum Alloy braid wire Coverage 92%(Approx.)	Nominal 12.5
Jacket	Black PE	Nominal 15.0

CABLE MARKING

Description	Content
Cable marking	"CFD600E-LW-BB LOW LOSS 50 OHM COAXIAL CABLE COMMATE/PEWC 12Dr" and sequential length.

ENVIRONMENTAL SPECIFICATION

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

MECHANICAL SPECIFICATION

Description	Spec.
Minimum bend radius : Installation	38.1mm
Cable Weight	0.166kg/m
Minimum tensile force	158.9kg

PROPERTIES FOR RoHS (Restriction of the use of Hazardous Substance)

Chemical substances	Limit of ppm (mg/kg)	Method
Lead (Pb)	<1000	IEC 62321 , Ed.2 111/95/CDV
Cadmium (Cd)	<100	
Mercury (Hg)	<1000	
Hexavalent chromium (Cr ⁺⁶)	<1000	
Polybrominated biphenyl (PBBs)	<1000	
Polybrominated diphenyl ethers (PBDEs)	<1000	



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ELECTRICAL PROPERTIES (AT 20°C)

Description	Unit	Spec. value
Velocity of propagation (Nom.)	%	87%
Conductor resistance		
Inner conductor (Nom.)	Ω/km	1.74
Voltage withstand	V AC/1min	4000
Impedance @200MHz (Nom.)	Ω	50
Capacitance (Nom.)	pF/m	77
VSWR (Max.) * Note 1		1.5
Attenuation (Nom.) * Note 2		
Frequency MHz	Unit	Spec. value
30	dB/100M	1.6
50		2.0
150		3.2
220		3.9
450		5.6
900		8.2
1500		10.9
1800		12.1
2000		12.8
2500		14.5
5800		23.8

Note 1. : The test frequency range 810~960、1300~1400、1500~1600、1710~1885、1915~2025、2100~2200、2400~2500 MHz

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

PACKING

- Both ends of the cable shall be effectively sealed to prevent the entrance of moisture.
- The cable shall be supplied in wooden drum of 500m.

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