

# ***PROFESSOR TECHNOLOGY CO.,LTD.***

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## **INTRODUCTION CFD 400 ADAPTER CABLE**

<b>Model No</b>	<b>Products P/N</b>
CFD-400-N/M-N/M (15M /10M)	CFD-400-15M/10M

Below is a table summarizing the CFD-400 Adapter cable design specification.

### **Mechanical Properties**

#### **8D-FBV Coaxial Cable**

#### **CONSTRUCTION OF CABLE**

Part Designation	Material	Outer Diameter (mm)
Inner conductor	Solid Copper Claded Aluminum Wire	Nominal 2.74
Insulation	Foam polyethylene	Nominal 7.24
Shield	Aluminum/PE Tape	Nominal 7.35
Outer conductor	0.16mm Aluminum Alloy Wire	Nominal 8.1
Single braid	Carriers 24 Ends 7 Picks/inch 10.6(Approx.) Coverage 92%(Approx.)	
Jacket	Black PE or Black Non lead PVC	Nominal 10.3

#### **CABLE MARKING**

Description	Content
Cable marking	CFD400E-LW LOW LOSS 50 OHM COAXIAL CABLE COMMATE/PEWC 8D (For PE Jacket) Or CFD400NL-LW LOW LOSS 50 OHM COAXIAL CABLE COMMATE/PEWC 8D ( For Non lead PVC Jacket)

#### **ENVIRONMENTAL SPECIFICATION**

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

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## **MECHANICAL SPECIFICATION**

Description	Spec.
Minimum bend radius	25.4mm
Cable Weight	0.082kg/m for PE Jacket 0.098kg/m for Non lead PVC Jacket
Tensile strength	72.6kg

## **ELECTRICAL PROPERTIES (AT 20°C)**

Description	Spec.
Velocity of propagation	Nom. 85%
Conductor resistance Inner conductor	Nom. 4.56 $\Omega$ /km
Voltage withstanding	2.5KV rms/1min
Impedance	Nom. 50 $\Omega$ @200MHz
Capacitance	Nom. 78.0 pF/m
Insulation resistance	Min. 1,000M $\Omega$ -km
VSWR	Max. 1.3 @30~2500MHz

### **Attenuation**

Frequency MHz	Attenuation dB/100M, nom.
30	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

### **Pb and Cd content for Non lead PVC Jacket**

Name of substance	Limit for ppm(mg/kg)	Method
Lead and its compounds (Pb)	$\leq 50$	US EPA 3050B
Cadmium and its compounds (Cd)	$\leq 5$	US EPA 3050B

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