



PRODUCT DATA SHEET

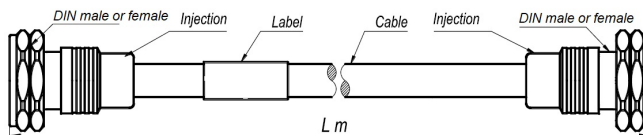
Low Smoke Halogen-free Fire-retardant Jumper Cable: DX-1/2SF-L-DX

Where L is length (meter): 1, 1.5, 2, 2.5, 3, 4, 5

X is Connector type: M or F

Description

1/2 Superflex jumper cable, Lm, DX to DX



Cable Type

Description	Material	Diameter (mm)
Inner Conductor	Copper-Clad Aluminum Wire	3.60
Dielectric	Physical Foam Polyethylene	8.70
Outer Conductor	Corrugated Copper Tube	12.0
Jacket	Low Smoke Halogen-free Fire-Retardant	13.5

Connectors – DIN type Male or Female

Description	Material	Surface Plating
Inner Conductor Pin	BRASS	Silver Plating
Body&Outer Conductor	BRASS	Trimetal Plating
Insulator	PTFE	
Gasket	Silicon Rubber	
Nut	BRASS	Nickel Plating

Electrical Characteristics

Length (L)	1m		2m		3m		5m	
	Loss	VSWR	Loss	VSWR	Loss	VSWR	Loss	VSWR
@DC-400MHz (loss: $0.076 \cdot L + 0.07$)	$\leq 0.15\text{dB}$	≤ 1.08	$\leq 0.23\text{dB}$	≤ 1.08	$\leq 0.30\text{dB}$	≤ 1.08	$\leq 0.45\text{dB}$	≤ 1.08
@401-960MHz (loss: $0.117 \cdot L + 0.10$)	$\leq 0.22\text{dB}$	≤ 1.08	$\leq 0.34\text{dB}$	≤ 1.08	$\leq 0.46\text{dB}$	≤ 1.08	$\leq 0.69\text{dB}$	≤ 1.08
@961-1880MHz (loss: $0.172 \cdot L + 0.14$)	$\leq 0.32\text{dB}$	≤ 1.08	$\leq 0.49\text{dB}$	≤ 1.08	$\leq 0.66\text{dB}$	≤ 1.08	$\leq 1.00\text{dB}$	≤ 1.08
@1881-2170MHz (loss: $0.182 \cdot L + 0.15$)	$\leq 0.34\text{dB}$	≤ 1.08	$\leq 0.52\text{dB}$	≤ 1.08	$\leq 0.70\text{dB}$	≤ 1.08	$\leq 1.06\text{dB}$	≤ 1.08
@2171-2690MHz (loss: $0.210 \cdot L + 0.17$)	$\leq 0.38\text{dB}$	≤ 1.08	$\leq 0.59\text{dB}$	≤ 1.08	$\leq 0.80\text{dB}$	≤ 1.08	$\leq 1.22\text{dB}$	≤ 1.08
@2691-4000MHz (loss: $0.260 \cdot L + 0.20$)	$\leq 0.46\text{dB}$	≤ 1.15	$\leq 0.72\text{dB}$	≤ 1.15	$\leq 0.98\text{dB}$	≤ 1.15	$\leq 1.50\text{dB}$	≤ 1.15
@4000-6000MHz (loss: $0.331 \cdot L + 0.24$)	$\leq 0.57\text{dB}$	≤ 1.30	$\leq 0.90\text{dB}$	≤ 1.30	$\leq 1.23\text{dB}$	≤ 1.30	$\leq 1.90\text{dB}$	≤ 1.30
Impedance	50Ω							
Frequency Range	DC~7.5GHz							
Dielectric Withstanding Voltage	2500V rms (DC)							
Operating Voltage	1000V rms							
Insulation Resistance	$\geq 10000\text{M}\Omega$							
IM3	$\leq -160\text{dBc}@2\text{x}43\text{dBm}$							

Mechanical and Environmental Characteristics

Cable Tensile resistance	$\geq 500\text{N}$
Torque Proof (Nut)	DINM: 30N.m
Storage Temperature	-45°C to +65°C
Operating Temperature	-45°C to +85°C
Water Proof Level	IP68 @ 24hr, 1m, 20°C
RoHS	Compliant
Standard	IEC 60332-1, IEC 60754-1, IEC 61034, UL1581 Compliant

Technical data are subjected to change without notice – File: DX-1/2SF-L-DX datasheet 2018V1.1