

## STANDARD

Title : **SFC12-50J**Item : **1251**Cable with standard UV resistant PE jacket  
halogen free according**Construction Materials**

Inner Conductor Material	Copper-Clad Aluminum Wire
Dielectric Material	Foam Polyethylene
Outer Conductor Material	Corrugated Copper
Jacket Material	Black polyethylene

**Dimensions**

Inner Conductor OD	3.58 mm
Diameter Over Dielectric	9.00 mm
Outer Conductor OD	12.00 mm
Diameter Over Jacket	13.40 mm

**Mechanical Data**

Minimum bending radius:	
Single Bending	25 mm
Repeated Bending	55 mm
Number of Bends, minimum	20
Number of Bends, typical	50
Bending moment	2.5 Nm
Flat plate crush strength	12 N/mm
Tensile Strength	750 N
Maximum hanger spacing	0.4 m
Approximate weight	160 (kg/km)



## FLAME RETARDANT

Title : **SFC12-50JFR**Item : **1251-FR**Cable with UV resistant, halogen free,  
low smoke flame retardant jacket**Electrical Data**

Capacitance	83 pF/m
Impedance	50 ±2 Ω
Velocity	81%
Peak Power Rating	15.6 kW
Max. Operating Frequency	10.2 GHz
Insulation Resistance	>10000 MΩ.km
DC Breakdown Voltage	2500 V
PIM (3rd order, 2*20W)	≤ -160 dBc
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor dc Resistance	2.97 Ω/km
Outer Conductor dc Resistance	6.30 Ω/km
Shielding Attenuation	≥120dB

**VSWR**

30MHz-3000MHz	≤ 1.15
3000MHz-4000MHz	≤ 1.15
4000MHz-5000MHz	≤ 1.20

**Recommended temperature range**

Operating Temperature	-55°C to +85 °C
Installation Temperature	-40°C to +60 °C
Storage Temperature	-70°C to +85 °C

**Attenuation and power rating**

Frequency (MHZ)	Attenuation (dB/100m)	Average Power (kW)
200	4.60	1.53
450	7.04	1.00
800	9.57	0.74
900	10.20	0.69
1800	14.90	0.47
2000	15.80	0.45
2200	16.70	0.42
2500	17.90	0.39
2700	18.80	0.38
3000	19.90	0.36
3400	21.40	0.33
4000	23.50	0.30
5000	26.80	0.26
6000	29.80	0.24