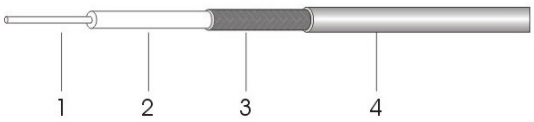
RF COAXIAL CABLE

GL67008650FEP 670-086/50 FEP Semi-flexible RF Coaxial Cable

MODEL GL67008650FEP

50 Ω semi-flexible coaxial cable with a silver-plated copper inner conductor, solid PTFE insulation and an FEP jacket.



KEY PERFORMANCE

50 ±2 Ω
IMPEDANCE

2.65 ±0.10 mm
JACKET DIAMETER

70.8% ±0.2%
VELOCITY

TECHNICAL SPECIFICATIONS

CONSTRUCTION	
Inner conductor	Silver-plated copper wire; Ø0.52 ±0.02 mm
Insulation	Solid extruded PTFE; Ø1.63 ±0.03 mm
Insulation concentricity	≥90%
Outer conductor	Tinned-soaked copper wire braid; Ø2.15 ±0.10 mm
Jacket	FEP; Ø2.65 ±0.10 mm
Average jacket thickness	0.25 mm
ELECTRICAL	
Rated voltage	1000 V DC
Inner conductor DC resistance	≤90 Ω/km at 20°C
Outer conductor DC resistance	≤40 Ω/km at 20°C
Inductance	0.23 µH/m
Capacitance	95 ±2 pF/m at 1 kHz
Insulation resistivity (source units)	≥1000 MΩ/km at 20°C
Dielectric strength	3000 V DC, 1 minute
Characteristic impedance	50 ±2 Ω
Shielding effectiveness	≥100 dB at 10–6000 MHz
PIM	≤−120 dBm at 910 / 1800 / 2100 / 2600 MHz
Velocity	70.8% ±0.2%
Phase difference	1440° ±4° (ΔL = 425 ±0.1 mm at 2 GHz)
Delay	4.7 ns/m
Cut-off frequency	61 GHz

NOTES

Attenuation: 20°C at sea level. Mean power rating: 40°C ambient. Requirements and compliance statements are reproduced from the source specification, not independent certifications.

CABLE PERFORMANCE & ENVIRONMENT

ATTENUATION / MEAN POWER	
800 MHz	Typ. 0.61 dB/m; max. 0.701 dB/m; 135 W
1000 MHz	Typ. 0.68 dB/m; max. 0.782 dB/m; 121 W
1800 MHz	Typ. 0.92 dB/m; max. 1.058 dB/m; 90 W
2000 MHz	Typ. 0.96 dB/m; max. 1.104 dB/m; 85 W
2600 MHz	Typ. 1.10 dB/m; max. 1.265 dB/m; 75 W
3800 MHz	Typ. 1.41 dB/m; max. 1.625 dB/m; 62 W
6000 MHz	Typ. 1.85 dB/m; max. 2.127 dB/m; 49 W
10000 MHz	Typ. 2.38 dB/m; max. 2.737 dB/m; 38 W
15000 MHz	Typ. 3.04 dB/m; max. 3.496 dB/m; 31 W
18000 MHz	Typ. 3.39 dB/m; max. 3.898 dB/m; 28 W
20000 MHz	Typ. 3.61 dB/m; max. 4.15 dB/m; 27 W
VSWR	
5–3000 MHz	≤1.10
3000–6000 MHz	≤1.2
6000–12000 MHz	≤1.3
12000–18000 MHz	≤1.35
18000–20000 MHz	≤1.4
MECHANICAL / ENVIRONMENT	
Minimum bend radius	6 mm
Repeated bend radius	20 mm, 40 cycles
Flame retardant (source requirement)	IEC60332-3-24 VW-1 (insulating & sheath)
Installation temperature	−20 to +60°C
Storage temperature	−0 to +40°C
Operating temperature	−65 to +200°C
Storage humidity	0–80% RH
Application	Indoor/outdoor; inside base-station antennas
Restricted substances (source statement)	2011/65/EU & 2015/863 compliant; REACH compliant
Packing	Plastic spool + carton; about 500 m/spool
Reference standards	IEC 61196-8; YD/T 2651-2013
Jacket color options	Black RAL9005; light blue RAL5012; blue RAL5015; white RAL9001; red RAL3027

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