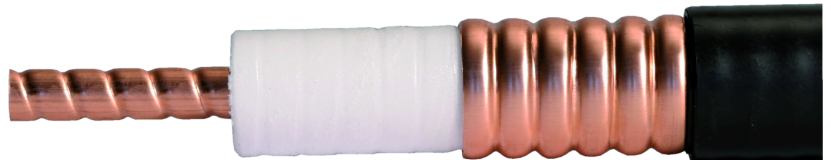


Corrugated, 50 Ohm, 5 GHz, 85°C, ø27.9 mm, LSFH jacket

SUCOFEEED_7/8_LA_FR

Properties

- Low loss, low IM distortion levels
- High power capability
- Flame retardant designs available
- High shielding effectiveness



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Tube	9.4 mm
Dielectric	SPE (Foamed Polyethylene)		22.6 mm
Outer conductor	Copper	Tube, corrugated, 100%	25.4 mm
Jacket	LSFH (modified polyethylene)	RAL 9011 - graphite black	27.9 mm +/- 0.4 mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 5 GHz
Capacitance	75 pF/m
Inductance	0.2 μH/m
Velocity of signal propagation	89 %
Signal delay	3.7 ns/m
Screening effectiveness	120dB
Insulation resistance	5000 MΩ*km
Inner conductor resistance	1.35 Ω/km
Operating Voltage (at sea level)	≤ 3 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 520 g/m
Static bending radius	≥ 120 mm
Repeated bending radius	250 mm (bendings, up to 15)
Tensile strength	1500 N

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-25 °C ... 60 °C
CPR class	B2ca-s1a,d0,a1
Flame propagation standard	IEC 60332-1 IEC 60332-3
Fire characteristics	free of halogenes, acc. standard IEC 60754-1
Smoke test	IEC 61034
UV resistance	ISO 4892-2

Ordering information		
Item number	Item description	Available as assembly only
84115695	SUCOFEED_7/8_LA_FR_A	No

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.0339546	b coefficient typical =	0.00362963
fmax =	5	P at 1 GHz =	2230
Frequency	Nom. attenuation	Nom. attenuation	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.011	0.003	7052
0.20	0.016	0.005	4986
0.40	0.023	0.007	3526
0.60	0.028	0.009	2879
1.00	0.038	0.011	2230
1.50	0.047	0.014	1821
2.00	0.055	0.017	1577
5.00	0.094	0.029	997

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