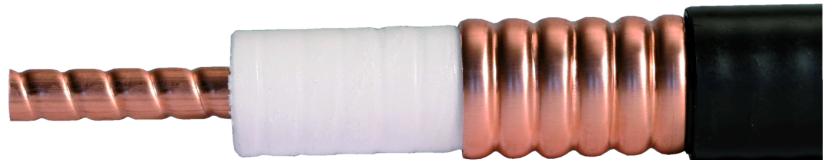


Corrugated, 50 Ohm, 5 GHz, 85°C, ø27.6 mm, LSFH jacket

SUCOFEEED_7/8_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 mm
Dielectric	SPE (Foamed Polyethylene)		22.3 mm
Outer conductor	Copper	Tube, corrugated, 100%	24.8 mm
Jacket	LSFH (modified polyethylene)	RAL 9011 - graphite black	27.6 mm +/- 0.4 mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 5 GHz
Capacitance	75.8 pF/m
Inductance	0.2 μH/m
Velocity of signal propagation	88 %
Signal delay	3.8 ns/m
Screening effectiveness	120dB
Insulation resistance	5000 MΩ*km
Inner conductor resistance	1.05 Ω/km
Operating Voltage (at sea level)	≤ 2.91 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 650 g/m
Static bending radius	≥ 120 mm
Repeated bending radius	250 mm (bendings, up to 15)
Tensile strength	1400 N

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

Suitable connectors	
Cable group	M23

Ordering information		
Item number	Item description	Available as assembly only
84020853	SUCOFEEED_7/8_FR	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.0360974	b coefficient typical =	0.00502581
fmax =	5	P at 1 GHz =	2190
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.012	0.004	6925
0.20	0.017	0.005	4897
0.40	0.025	0.008	3463
0.60	0.031	0.009	2827
1.00	0.041	0.013	2190
1.50	0.052	0.016	1788
2.00	0.061	0.019	1549
5.00	0.106	0.032	979

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