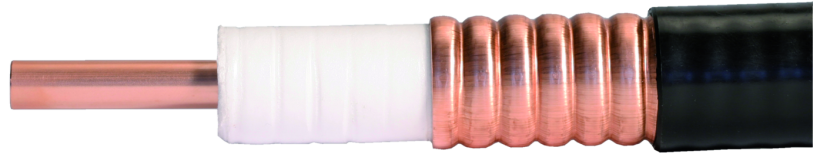


Corrugated, 50 Ohm, 5 GHz, 85°C, Ø27.6 mm, PE jacket

SUCOFEEED_7/8

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	PE-LD (Low-density polyethylene)	RAL 9005 - bk	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	10000 MΩ*km
Inner conductor resistance	1.55 Ω/km
Operating Voltage (at sea level)	≤ 2.91 kVrms
Test voltage (50 Hz/1 min)	≤ 6 kVrms

Mechanical data	
Weight	approx. 530 g/m
Static bending radius	≥ 120 mm
Repeated bending radius	250 mm (bendings, up to 15)
Tensile strength	1400 N

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

SUCOFEED_7/8

Environmental data	
Operation temperature	-55 °C ... 85 °C
Installation temperature	-25 °C ... 60 °C
CPR class	Fca
Fire characteristics	free of halogenes, acc. standard IEC 60754-1
UV resistance	ISO 4892-2

Suitable connectors	
Cable group	M23

Ordering information		
Item number	Item description	Available as assembly only
84020852	SUCOFEED_7/8	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

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P733 / Date of publication: 08.08.2024 / uncontrolled copy