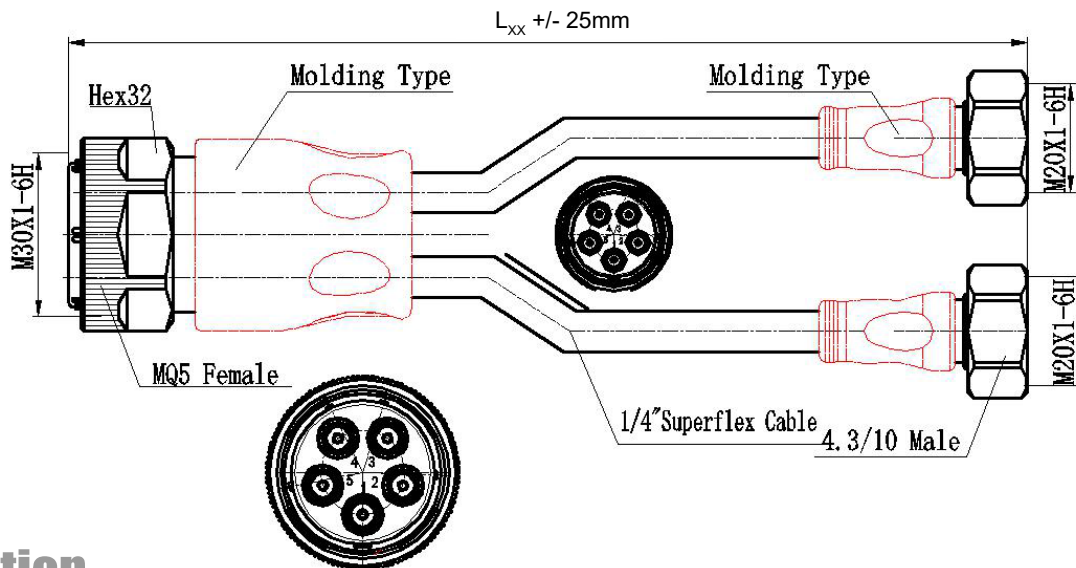




Product specification

HUGHES 1/4" SCF MQ5 Female to 4.3-10 F

25-110142865/xx



Description

High-quality 1/4" SCF jumper cable with MQ5 and 4.3-10 connectors, engineered for low losses and reliable RF connectivity. IP67-rated and built to withstand demanding cellular environments.

Specification

General Specifications		
Cable Type	1/4" SCF cable	
Cable Length	L (m) $\pm$ 25mm	
Inner Conductor	Copper-Clad Aluminum Wire	
Dielectric	Physical Foam Polyethylene	
Outer Conductor	Helical Copper Tube	
Jacket	LSZH, Black	
Connectors	MQ5 Female	4.3-10 Female
Inner Conductor Pin	Bronze/Silver Plating	Brass/Silver Plating
Outer Conductor	Bronze/Silver Plating	Brass/Tri-Metal Plating
Body	Brass/SnNi3	Brass/Tri-Metal Plating
Insulator	PTFE	PTFE
Gasket	Silicone Rubber	Silicone Rubber
Electrical Specifications		
Characteristics Impedance	50 Ω	
Frequency Range	DC~6GHz	
Insulation Resistance	$\geq 5000\text{M}\Omega$	
Dielectric Withstanding Voltage	$\geq 1000\text{V RMS}$, 50Hz, at sea level	
Centre Contact Resistance	$\leq 1.0\text{m}\Omega$	
Outer Contact Resistance	$\leq 1.0\text{m}\Omega$	
Insertion Loss		
	@DC-3.6GHz	$\leq 0.35 * L + 0.2\text{dB}$
VSWR		
		≤ 1.10 (DC-2.2GHz)
		≤ 1.15 (2.2-2.7GHz)
		≤ 1.20 (2.7-4.2GHz)
		≤ 1.30 (4.2-6GHz)
PIM	$\leq -160\text{dBc}$	

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Product specification

HUGHES 1/4" SCF MQ5 Female to 4.3-10 F

25-110142865/xx

Environmental and Mechanical Specifications	
RoHS compliance	Full RoHS Compliance
Temperature Range	-40°C to +85°C
Sealing Class	IP67 24hr, 1m, 20°C
Mechanical Shock Test Method	MIL-STD-202, Method 213, Test Condition D
Vibration Test Method	MIL-STD-202, Method 204, Test Condition A
Salt-fog test	In accordance with ISO 9227

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