



Photo only for reference

Part number

PR-DMB-12R01-PMB-V4-XXXX

RF coaxial jumper with weatherproof kit, low loss, Black PE jacket

*XXXX indicate the length(L), unit millimeter. Tolerance: $\pm 20\text{mm}$ @ $L \leq 2\text{m}$; $\pm 1\%$ @ $L > 2\text{m}$.

Product construction

No.	Designation	Material
1	Cable	1/2" regular coaxial cable, Black PE jacket
2	Connector	7/16 Male or 4.3/10 Male for 1/2" regular coaxial cable
3	Protection	Black TPV
4	Label	Plastic label, Waterproof
5	Waterproof	Rubber Boot for 1/2" regular coaxial cable with 7/16 Male or 4.3/10 Male

Electrical data

Characteristics impedance	$50 \pm 2\Omega$
Frequency	300 to 2.7GHz
Maximum frequency	8.8GHz
Return Loss	$\leq -28\text{dB}$ @698-960MHz
	$\leq -28\text{dB}$ @1710-1880MHz
	$\leq -28\text{dB}$ @1920-2170MHz
	$\leq -26\text{dB}$ @2170-27000MHz
Intermodulation (3rd Order)	$\leq -155\text{dBc}$ @900MHz, 2x43 dBm
Voltage between inner and outer conductor	$\geq 2700\text{V}$
Isolated impedance	$\geq 10000\text{M}\Omega \cdot \text{km}$
Max. power range	20kW
Insertion loss (L indicates the jumper length)	$\leq 0.100 + 0.071 \times L$ @698-960MHz
	$\leq 0.120 + 0.100 \times L$ @1710-1880MHz
	$\leq 0.148 + 0.110 \times L$ @1920-2170MHz
	$\leq 0.164 + 0.124 \times L$ @2170-27000MHz

Part list specification

Cable		
Inner conductor		Copper clad aluminum wire, 4.8±0.05mm
Insulation		Foamed polyethylene
Outer conductor		Corrugated copper tube, 13.9±0.25mm
Jacket		Black PE, 15.7±0.30mm
Minimum bending radius	Single	≤70mm
	Repeated	≤120mm (15 times)
DC resistance		Inner conductor ≤1.62Ω/km
		Outer conductor ≤4.8Ω/km
Cable weight		Nominal 190kg/km
Connector		
Connector 1 type		7/16 male, straight
Connector 2 type		4.3/10 male, straight
Inner contact		Brass contact with silver plated, Solder
Insulation		PTFE
Outer conductor		Brass with Tri-alloy plated, Solder
Nut		Brass with Nickel plated, Solder
Connector torque proof recommend		25 to 30 NM@7/16 connector
		5 to 8 NM@4.3/10 connector
Weatherproof silicone boot		
Technical data		Photo for reference
Material	Silicone, black	
Suitable cable	13-17mm	
Suitable connector	7/16 male	
Temperature rating	-55°C to +90°C	
Weatherproof	IP68	
UV resistance	IEC60068-2-5, 1000h	
RoHS	Compliance	
Material	Silicone, black	
Suitable cable	13-17mm	
Suitable connector	4.3-10 male, straight	
Temperature rating	-40°C to +90°C	
Weatherproof	IP68	
UV resistance	IEC60068-2-5	
RoHS	Compliance	

Environment

Operating temperature	-40°C to +85°C
Storage temperature	-55°C to +85°C
Halogen free	IEC 60754-2:2011
UV resistance	UL 1581-1200 (720h)
IP protection	IP68, IEC 60529
2011/65/Eu (RoHS)	Compliant

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