



Photo for reference

Part number

PR-XXB-12S01-BP-XXB-XXXX		1/2S cable assembly with weatherproof boot, bird proof			
PR	XXB	12S01	BP	XXB	XXXX
Default	Connector with weatherproof boot	Cable indicates	Bird proof	Connector with weatherproof boot	Length indicates
NA	DM-DIN male 43M-4.3/10 male NM-N male ... B- with boot No B without boot	1/2" super flexible, Black PE jacket	NA	DM-DIN male 43M-4.3/10 male NM-N male ... B- with boot No B without boot	XXXX (mm) XXM (meter) XXFT (feet)

Part list

Item	Description	Qty
1	Connector1, DIN male/4.3-10male/N male (Binary alloy plating)	1pc
2	Weatherproof boot1 for connector1	1pc
3	Bird proof for weatherproof boot1	1pc
4	Label	1pc
5	Cable	1pc
6	Wrinkled Nylon pipe $\phi 21.2\text{mm}$	1pc
7	Bird proof for weatherproof boot2	1pc
8	Weatherproof boot2 for connector2	1pc
9	Connector2, DIN male/4.3-10male/ N male (Binary alloy plating)	1pc

Electrical data

Characteristics impedance	50 Ω
Frequency	DC to 4GHz
Insulation resistance	$\geq 5000\text{M}\Omega$
Dielectric withstanding voltage	2500V rms
Operating voltage	500V rms

Insertion loss	Cable attenuation+ connection loss ($0.1*\sqrt{FGHz}$)
Return loss	$\leq -28\text{dB}$ @ DC-1.0GHz
	$\leq -26\text{dB}$ @ 1.0-2.2GHz
	$\leq -23\text{dB}$ @ 2.2-3.0GHz
	$\leq -22\text{dB}$ @ 3.0-3.8GHz
Intermodulation (3 rd Order)	$\leq -160\text{dBc}$ @900MHz, 2x43dBm

Mechanical data

Cable tensile resistance	$\geq 450\text{N}$
Min. Bending radius	35mm
Connector torque proof recommend	25 to 30N.m @DIN type
	5 to 8N.m @4.3-10 type
	0.7 to 1.3N.m @N type

Environment

Working temperature	-40°C to +85°C
IP protection	IP68, mated pair, 1m, 1.5H, 20°C
RoHS	Compliant

Notice

- 1, No need additional weatherproof kits since it already had pre-assembled boot.
- 2, Connection molding shape may be changed during the product life-time due to the manufacture skill upgrade.

Cable attenuation reference

Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100feet)
450	7.59	2.31
800	10.40	3.17
900	11.20	3.41
1000	11.80	3.60
1800	16.00	4.88
2000	17.20	5.24
2200	18.20	5.55
2500	19.50	5.94
2700	20.50	6.25
3000	21.90	6.68
3500	22.97	7.00

3600	23.81	7.26
3800	24.46	7.46
4000	25.20	7.68

Weatherproof boot and armored reference

Technical data		Photo for reference
Boot for DIN male		
Material	Silicone, black	
Suitable cable	13-17mm	
Suitable connector	DIN male, straight	
Temperature rating	-40°C to +90°C	
Weatherproof	IP68	
UV resistance	Compliance	
RoHS	Compliance	
Boot for N male		
Material	Silicone, black	
Suitable cable	13-17mm	
Suitable connector	N male, straight	
Temperature rating	-40°C to +90°C	
Weatherproof	IP68	
UV resistance	Compliance	
RoHS	Compliance	
Boot for 4.3-10 male		
Material	Silicone, black	
Suitable cable	13-17mm	
Suitable connector	4.3-10 male, straight 4.1-9.5 male, straight	
Temperature rating	-40°C to +90°C	
Weatherproof	IP68	
UV resistance	Compliance	
RoHS	Compliance	
Boot for AD21		
Material	PA6, black	
Dimension	AD21	
Temperature rating	-40°C to +80°C	
UV resistance	Compliance	
RoHS	Compliance	

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