

PR-XX-12R01-XX-XXXX

1/2" R cable assembly

PROSE

- Working frequency up to 4GHz
- Flexible cable 1/2 inch, easy to take and install
- Good performance at return loss and Intermodulation
- Outdoor application, UV resistance, halogen free

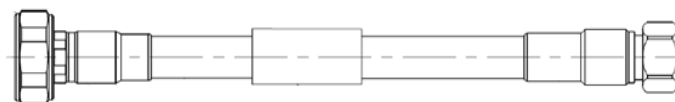


Photo for reference

Part number

PR-XX-12R01-XX-XXXX				
PR	XX	12R01	XX	XXXX
NA	Connector indicates	Cable indicates	Connector indicates	Length indicates
Default	DM=DIN male DF=DIN female DMA=DIN male angled NM=N male NF=N female NMA=N male angled 43M=4.3/10 male 43F=4.3/10 female 43MA=4.3/10 male angled 41M=4.1/9.5 male 41F=4.1/9.5 female 41MA=4.1/9.5 male angled NEX10M=NEX10 male NEX10F=NEX10 female ...	1/2" regular coaxial cable PE jacket	DM=DIN male DF=DIN female DMA=DIN male angled NM=N male NF=N female NMA=N male angled 43M=4.3/10 male 43F=4.3/10 female 43MA=4.3/10 male angled 41M=4.1/9.5 male 41F=4.1/9.5 female 41MA=4.1/9.5 male angled NEX10M=NEX10 male NEX10F=NEX10 female ...	Unit mm Tolerance: ±20mm @L<2m ±1% @L≥2m

Part list

Connector	DIN, N, 4.3/10, etc, straight or angled available
Cable	1/2" regular flexible cable, PE jacket, 15.9mm
Bend protection	Molding
Label	Wrap sticker

Electrical data

Characteristics impedance	50Ω
Frequency	DC to 4GHz
Insulation resistance	≥5000MΩ
Dielectric withstanding voltage	2500V rms

Operating voltage	500V rms
Relative velocity of propagation	87%
Insertion loss	Cable attenuation+ connection loss ($0.1 \cdot \sqrt{F} \text{GHz}$)
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	70mm
Connector torque proof recommend	25 to 30N.m @DIN type
	5 to 8N.m @4.3 type
	5 to 8N.m @4.1 type
	0.7 to 1.3N.m @N type
	1.5 to 1.8N.m @NEX10 type

Environment

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

Notice

- 1, The connection should be covered with addition weatherproof kits for long time duration.
- 2, Connection molding shape may be changed during the product life-time due to the manufacture skill upgrade.

Cable dimension reference

Item	Material	Dimension
Inner conductor	Copper-clad aluminum wire	φ4.8mm
Dielectric	Foam PE	φ12.2mm
Outer conductor	Corrugated copper (annularly)	φ13.8mm
Jacket	Black PE, halogen free	φ15.9mm

Cable attenuation reference

Frequency (MHz)	Attenuation (dB/100m)
450	4.70
800	6.35
900	6.75
1000	7.20
1800	9.90
2000	10.50
2200	11.10
2500	11.95
2700	12.47
3000	13.20
3500	14.65
3600	14.80
3800	15.32
4000	15.76

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.