

YSROL-1015Y

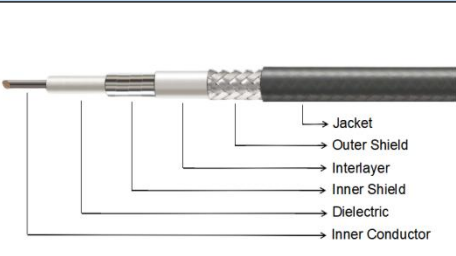
10 GHz, ϕ 10.15 mm Rugged Outdoor Low-Loss RF Cable Assembly

Key Features

- Rugged Outdoor Construction
- Ultra-Low Insertion Loss
- Excellent Environmental Resistance
- Rodent-Resistant PUR Jacket
- 20+ Years Outdoor Service Life

Applications

- Armored & Tactical Vehicles
- Military Communication Systems
- Naval Communication Equipment
- Phased Array Radar Antennas
- Military & Commercial Base Stations

Cable Construction								
			Cable Type		Dia.(mm)		Material	
			Inner Conductor		ϕ 2.44		Silver plated Copper	
			Dielectric		ϕ 7.24		Low Density PTFE	
			Inner Shield		ϕ 7.48		Silver Plated Copper Strip	
			Interlayer		ϕ 7.61		High-Temperature Aluminum Foil	
			Outer Shield		ϕ 8.19		Silver Plated Copper Braid	
			Jacket		ϕ 10.15		Rodent-Resistant PUR Jacket	
Electrical Specifications				Mechanical Specifications				
Operating Freq.		10 GHz		Static Bending Radius		51 mm		
Cut-off Freq.		15 GHz		Dynamic Bending Radius		103 mm		
Impedance		50 Ω		Weight		205 g/m		
Velocity of Propagation		76%		Environmental Specifications				
Shielding Effectiveness		>70 dB		Operating Temperature		-55 to +85°C		
Dielectric Withstanding Voltage		3000 VDC						
Attenuation (dB/100 M, Typical at +25°C) & Power Handling (W, Typical at +40°C)								
Freq.(GHz)	1	2	3	4	5	6	8	10
Attenuation	14.7	21.1	26.2	30.6	34.5	38.2	44.7	50.6
Avg. Power	1104	768	619	530	470	426	363	321
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.446080, K2=0.000600$								
Connectors Options								
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)		
N(N)	18 GHz	1.25:1						

Cable Assemblies Naming Rule:

PN: Cable-Length(M)-Connector 1-Connector 2

Eq.: YSROL-1015Y-1M-NM-NF means YSROL-1015Y cable, L=1M, N(M)-N(F).

Add "R" for Right-Angle Connector, Add "H" for Bulkhead Connector (e.g., NMR, NFH).