

# YSCI-1500M

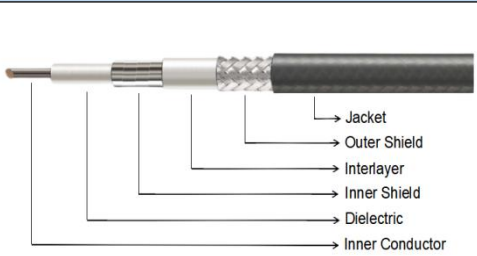
6 GHz,  $\phi$ 15.00 mm Communication Interconnect Cable Assembly

## Key Features

- Low VSWR
- Low Insertion Loss
- UV Resistant Jacket
- Stable RF Performance
- Flexible Installation

## Applications

- Base Station Interconnects
- RF System Interconnections
- Vehicular RF Systems
- Wireless Communication Systems
- Outdoor RF Installations

Cable Construction										
			Cable Type		Dia.(mm)		Material			
			Inner Conductor		$\phi$ 4.47		Copper			
			Dielectric		$\phi$ 11.56		Foamed Polyethylene			
			Inner Shield		$\phi$ 11.81		Flat Silver-Plated Copper Braid			
			Interlayer		$\phi$ 11.94		Aluminum Foil			
			Outer Shield		$\phi$ 12.70		Tin-Plated Copper Wire			
			Jacket		$\phi$ 15.00		Black PUR Jacket			
Electrical Specifications				Mechanical Specifications						
Operating Freq.		6 GHz		Static Bending Radius		75 mm				
Cut-off Freq.		9 GHz		Dynamic Bending Radius		150 mm				
Impedance		50 $\Omega$		Weight		240 g/m				
Velocity of Propagation		86%		Environmental Specifications						
Shielding Effectiveness		>90 dB		Operating Temperature		-45 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)	0.3	0.5	1	2	3	4	5	6		
Attenuation	4.8	6.3	9.1	13.4	16.9	20.0	22.8	25.4		
Avg. Power	1540	1175	808	551	437	370	325	291		
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F}(\text{MHz}) + K2*F(\text{MHz})$ $K1=0.262713, K2=0.000840$										
Connectors Options										
Connectors	Freq.(Max)	VSWR (Max)		Connectors	Freq.(Max)	VSWR (Max)				
BNC(B)	4 GHz	1.30:1		N(N)	18 GHz	1.25:1				

## Cable Assemblies Naming Rule:

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

Ex.: YSCI-1500M-1M-NM-NF means YSCI-1500M cable, L=1M, N(M)-N(F).

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