

# YSCI-1029M

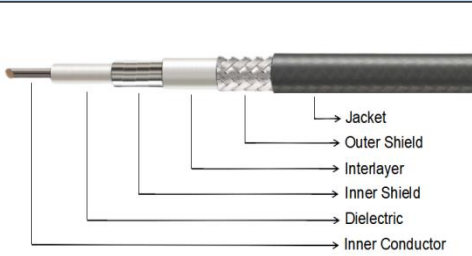
10 GHz, φ10.29 mm Communication Interconnect Cable Assembly

## 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		φ2.74		Copper		
			Dielectric		φ7.24		Foamed Polyethylene		
			Inner Shield		φ7.49		Flat Silver-Plated Copper Braid		
			Interlayer		---		Aluminum Foil		
			Outer Shield		φ8.38		Tin-Plated Copper Wire		
			Jacket		φ10.29		Black PUR Jacket		
Electrical Specifications					Mechanical Specifications				
Operating Freq.		10 GHz			Static Bending Radius		51.5 mm		
Cut-off Freq.		15 GHz			Dynamic Bending Radius		103 mm		
Impedance		50 Ω			Weight		120 g/m		
Velocity of Propagation		83%			Environmental Specifications				
Shielding Effectiveness		>90 dB			Operating Temperature		-45 to +85°C		
Dielectric Withstanding Voltage		2000 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	10
Attenuation	7.7	10.0	14.4	20.9	26.0	30.5	34.6	38.3	51.4
Avg. Power	985	756	525	362	290	248	219	197	147
Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(\text{MHz})} + K2*F(\text{MHz})$ $K1=0.428330, K2=0.000860$									
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-1029M-1M-NM-NF means YSCI-1029M cable, L=1M, N(M)-N(F).

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