YSCI-610M

10 GHz, φ6.10 mm Communication Interconnect Cable Assembly

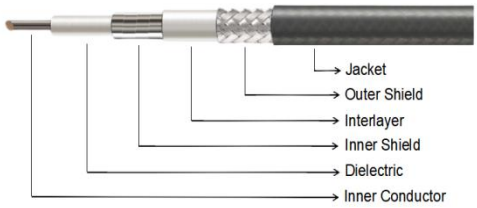
Key Features

- 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	φ1.42	Copper
Dielectric	φ3.81	Foamed Polyethylene
Inner Shield	φ4.06	Flat Silver-Plated Copper Braid
Interlayer	---	Aluminum Foil
Outer Shield	φ4.78	Tin-Plated Copper Wire
Jacket	φ6.10	Black PUR Jacket

Electrical Specifications		**Mechanical Specifications**	
Operating Freq.	10 GHz	Static Bending Radius	31 mm
Cut-off Freq.	30 GHz	Dynamic Bending Radius	61 mm
Impedance	50 Ω	Weight	70 g/m
Velocity of Propagation	83%	**Environmental Specifications**	
Shielding Effectiveness	>90 dB	Operating Temperature	-45 to +85°C
Dielectric Withstanding Voltage	1000 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	13.3	17.4	24.9	35.8	44.4	51.9	58.6	64.8	86.0
Avg. Power	610	469	328	227	183	157	139	126	95

Typical Cable Attenuation Calculation Formula: $K1*\sqrt{F(MHz)} + K2*F(MHz)$
K1=0.751798, K2=0.001086

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

Eg.: YSCI-610M-*1M-NM-NF* means YSCI-610M cable,L=1M, N(M)-N(F).

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

Yusntech Inc. yusntech.com sales@yusntech.com