QY635

Outdoor Use, Low Loss, Phase Stable

Features:
* Low Insertion Loss
* High Weatherability
* UV Resistant

Applications:
* Wireless Base Station
* Satellite Communication
* Maritime Communication
* Outdoor Interconnection

Electrical

Frequency:	DC~18GHz
Cut-off Frequency:	27GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	70dB min.
Voltage Withstand:	2000V DC

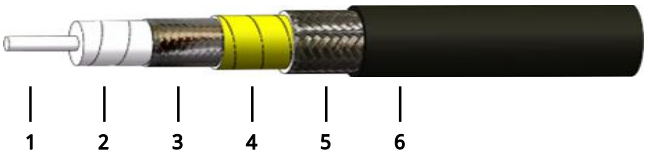
Mechanical

Bend Radius (installation):	36.0mm
Bend Radius (repeated):	72.0mm
Weight:	89g/m

Environmental

Temperature:	-55~+85℃
Outdoor Life:	20 years

Construction



No.	Name	Size (mm)	Material
1	Inner Conductor	1.57	Silver-plated copper
2	Dielectric	4.72	Low density PTFE
3	Inner Shield	4.96	Silver-plated copper tape
4	Interlayer	5.10	Aluminum tape
5	Outer Shield	5.66	Silver-plated copper braid
6	Jacket	7.20	PUR

Attenuation & Power Handling

Frequency (GHz)	0.1	0.3	0.5	1	3	6	10	12.4	18
Attenuation[*1] (dB/100m)	6.9	12.0	15.6	22.2	39.2	56.4	74.2	83.4	102.2
Average Power[*2] (W)	1150	660	509	357	202	140	107	95	77

[1] VSWR:1.0; Ambient: +25℃ (77℉)
[2] VSWR:1.0; Ambient: +40℃ (104℉); Sea level
Calcuate Cable Attenuation: Attenuation (dB/100m) = $0.682743 * \sqrt{F\ (MHz)} + 0.000591 * F\ (MHz)$
Calcuate Connector Attenuation: Attenuation (dB) = $0.03 * \sqrt{F\ (GHz)}$

How To Order

QY635-X-Y-Z

X: Frequency in GHz
Y: Connector type
Z: Length in meters

Examples:
To order a QY635 cable assembly, DC-18GHz, N male to SMA female, 1.5 meters, specify QY635-18-SFN-1.5.

Connector naming rules:
S - SMA (18GHz, VSWR 1.25)
N - N (18GHz, VSWR 1.25)
T - TNC (18GHz, VSWR 1.25)

Female Connector - Add ‘F’ after connector name
Right Angle - Add ‘R’ after connector name (VSWR increase 0.1)