

TY500

Weather Resistance Low Loss Cable Assembly DC~18GHz



Features

- Low Loss
- Ruggedized for Harsh Field Use
- Superior Outdoor Durability
- Protection against Moisture and Corrosion
- Cost-Effective

Applications

- Naval / Maritime Communications Systems
- Indoor & Outdoor Phased Array Radar Antennas
- Military Radio Equipment
- Military & Commercial Communication Base Stations

Specifications

Electrical

Operating Frequency	DC~18GHz
Cutoff Frequency	35GHz
Impedance	50Ω
Velocity of Propagation	76%
Screening Effectiveness	70dB min
Voltage Rating	1500V, DC

Environmental & Mechanical

Operating Temperature	-55°C~+85°C
Min Bending Radius/Single	25.00 mm
Min Bending Radius/Repeated	50.00 mm
Weight	57g/m

Attenuation@25°C & Power@40°C(sea level)

Frequency(GHz)	1	2	3	6	8	10	12.4	16	18
Attenuation(dB/100m)	35.4	50.4	62	88.8	103.2	116	129.9	148.7	158.3
Power Handling(W)	199	140	113	79	68	61	54	47	44

Construction

Inner Conductor	Solid Silver-plated Copper	1.02mm
Dielectric	Low Density PTFE	3.07mm
Inner Shield	Silver-plated Copper Tape	3.27mm
Interlayer Shield	High Temp Aluminum Foil	3.43mm
Outer Shield	Silver-plated Copper Braid	4.00mm
Jacket	Rodent-Resistant PUR	5.00mm

Outline



Ordering Information

TY 500	-	1 8	-	N F N F	-	1
Cable						
Operating Frequency(GHz)						
RF Connectors(N:type-N)						
NN: N male to N male						
NNF: N male to N female						
NFNF: N female to N female						
Overall Length(meter(s))						