

## FY460

### 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**

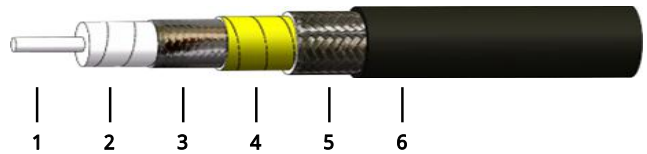
Frequency:	DC~18GHz
Cut-off Frequency:	35GHz
Impedance:	50Ω
Velocity of Propagation:	76%
Shielding Effectiveness:	70dB min.
Voltage Withstand:	1000V DC

**Mechanical**

Bend Radius (installation):	25.0mm
Bend Radius (repeated):	50.0mm
Weight:	56g/m

**Environmental**

Temperature:	-55~+85°C
Outdoor Life:	20 years

**Construction**


No.	Name	Size (mm)	Material
1	Inner Conductor	1.02	Silver-plated copper
2	Dielectric	3.07	Low density PTFE
3	Inner Shield	3.27	Silver-plated copper tape
4	Interlayer	3.43	Aluminum tape
5	Outer Shield	3.94	Silver-plated copper braid
6	Jacket	5.00	PUR

**Attenuation & Power Handling**

Frequency (GHz)	0.1	0.3	0.5	1	3	6	10	12.4	18
Attenuation*1 (dB/100m)	11.1	19.2	24.9	35.4	62.0	88.8	116.0	129.9	158.3
Average Power*2 (W)	636	366	283	199	113	79	61	54	44

[1] VSWR:1.0; Ambient: +25°C (77°F)

[2] VSWR:1.0; Ambient: +40°C (104°F); Sea level

Calculate Cable Attenuation: Attenuation (dB/100m) = 1.099485 \*  $\sqrt{F}$  (MHz) + 0.000602 \* F (MHz)

Calculate Connector Attenuation: Attenuation (dB) = 0.03 \*  $\sqrt{F}$  (GHz)

**How To Order**
**FY460-X-Y-Z**

X: Frequency in GHz

Y: Connector type

Z: Length in meters

**Examples:**

To order a FY460 cable assembly, DC-18GHz, N male to SMA female, 1.5 meters, specify FY460-18-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)