

PE Jacket

Waveguide type: **EU 127**

FRNH Jacket

Waveguide type: **EU 127-FR**

on request





CHARACTERISTICS

Construction

- **Description** Corrugated elliptical copper tube
- **Conductor**
 - Material copper
 - Elliptical mm (in) 25,9 x 14,7 (1.02 x 0.58)
- **Jacket**
 - Material UV resistant, black polyethylene (or black FRNH compound)
 - Dimensions mm (in) 28,5 x 17,3 (1.12 x 0.68)
 - Thickness mm (in) 1,3 (0.05)

Mechanical

- **Minimum bending radius**
 - a) single bending
 - E plane mm (in)  125 (4.9)
 - H plane mm (in)  250 (9.8)
 - b) repeated bends
 - E plane mm (in) 150 (5.9)
 - H plane mm (in) 400 (15.7)
- **Maximum twist** °/m (°/feet) 3 (1)
- **Max. pulling length per hoisting grip** m (ft) 60 (197)
- **Recommended temperature range**
 - Installation °C (°F) -20 to +60 (-4 to +140)
 - Operation °C (°F) -40 to +80 (-40 to +176)
- **Weight approx.** kg/m (lb/ft) 0,36 (0.24)
- **Minimum drum core diameter** mm (in) 1000 (39)
- **Maximum operating pressure** bar (psi) 0,5 (7.3)
- **Recommended clamp spacing** m (ft) 1 (3)

Electrical

- **Frequency range** GHz 11.7 - 13.25
- **Principal mode cut-off frequency HE_{C11}** GHz 7.9
- **Attenuation, group velocity of propagation, power**

Frequency GHz	Attenuation ⁽¹⁾ dB/100m (dB/100ft)	Group velocity %	Av. Power ⁽²⁾ kW
11.7	12,41 (3.78)	74.9	1.16
11.8	12,33 (3.76)	75.4	1.17
11.9	12,26 (3.74)	75.9	1.18
12.0	12,18 (3.71)	76.3	1.19
12.1	12,11 (3.69)	76.8	1.19
12.2	12,04 (3.67)	77.2	1.20
12.3	11,98 (3.65)	77.7	1.21
12.4	11,91 (3.63)	78.1	1.21
12.5	11,85 (3.61)	78.5	1.22
12.6	11,80 (3.60)	78.8	1.23
12.7	11,74 (3.58)	79.2	1.23
12.8	11,69 (3.56)	79.6	1.24
12.9	11,63 (3.55)	79.9	1.24
13.0	11,58 (3.53)	80.3	1.25
13.1	11,54 (3.52)	80.6	1.25
13.2	11,49 (3.50)	80.9	1.26

⁽¹⁾ Attenuation at 20°C (68°F)

⁽²⁾ Average power ratings based on VSWR 1.0, 82°C (180°F) inner temperature, 40°C (140°F) ambient temperature

CONNECTOR

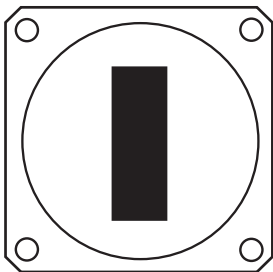


EU127-P-CPR75-G

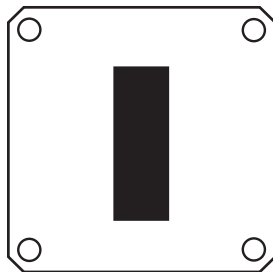
Features

- Very low VSWR across entire frequency range
- No tuning required
- Easy and reliable installation

Flange types



PBR120
WR75 (CPR75-G)
(pressurable
cover flange)



UBR120*
WR75* (CPR75-F)
(cover flange)

* on request

Technical characteristics

• Frequency range (GHz)	10.2 - 11.7
• Recommended pressure bar (psi)	0,25 (3.6)
• Gas port thread	P 1/8"
• Temperature range °C (°F)	-40 / +80 (-40 / +176)
• Connector material	brass
• VSWR	< 1.05

References

Flange type	Sealing Method	Reference
• PBR120	Threaded gasket	EU127-P-PBR7120
• CPR75-G	Threaded gasket	EU127-P-CPR75-G

ACCESSORIES



Description

- Flaring Tool
- Bending Tool
- Saw Guide
- Shim* for PDR flange
- Pressure Window
- Twist Flex
- Grounding Kit
- Fixing Clamps
- Hoisting Grips
- Weatherproofing solutions
- Dehydrator
- Full-thickness gasket** for CPR flange
- Half-thickness gasket** for CPR flange

Reference

- EU-FT127-P
- see page 18
- EU-SG127
- EU-SH127
- see page 20
- see page 21
- EU-GK127
- see page 22
- EU-HG127
- see page 23
- see page 24
- EU-FGK127
- EU-HGK127

* Use shim when mating two PDR flanges. Not required when mating PDR/UDR. Order separately.

** Use full-thickness gasket (supplied with connector) when mating two CPR-G flanges. Use half-thickness gasket (order separately) when mating CPR-G with CPR-F.