

PE Jacket

Waveguide type: **EU 63**

FRNH Jacket

Waveguide type: **EU 63-FR**

on request





CHARACTERISTICS

Construction

- **Description** Corrugated elliptical copper tube
- **Conductor**
 - Material copper
 - Elliptical mm (in) 47,9 x 26,8 (1.89 x 1.06)
- **Jacket**
 - Material UV resistant, black polyethylene (or black FRNH compound)
 - Dimensions mm (in) 51,5 x 30,6 (2.03 x 1.20)
 - Thickness mm (in) 1,8 (0.07)

Mechanical

- **Minimum bending radius**
 - a) single bending
 - E plane mm (in)  200 (7.9)
 - H plane mm (in)  500 (19.7)
 - b) repeated bends
 - E plane mm (in) 300 (11.8)
 - H plane mm (in) 700 (27.6)
- **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) 0,84 (0.56)
- **Minimum drum core diameter** mm (in) 1200 (47)
- **Maximum operating pressure** bar (psi) 0,5 (7.3)
- **Recommended clamp spacing** m (ft) 1 (3)

Electrical

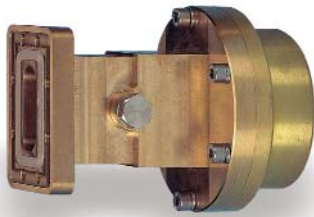
- **Frequency range** GHz 5.85 - 7.125
- **Principal mode cut-off frequency HE_{C11}** GHz 4.1
- **Attenuation, group velocity of propagation, power**

Frequency GHz	Attenuation ⁽¹⁾ dB/100m (dB/100ft)	Group velocity %	Av. Power ⁽²⁾ kW
5.9	4,58 (1.40)	70.2	4.61
6.0	4,51 (1.37)	71.4	4.69
6.1	4,44 (1.35)	72.5	4.76
6.2	4,38 (1.33)	73.6	4.83
6.3	4,32 (1.32)	74.5	4.90
6.4	4,27 (1.30)	75.5	4.96
6.5	4,22 (1.29)	76.3	5.01
6.6	4,17 (1.27)	77.1	5.07
6.7	4,13 (1.26)	77.9	5.12
6.8	4,09 (1.25)	78.6	5.17
6.9	4,06 (1.24)	79.3	5.21
7.0	4,03 (1.23)	80.0	5.25
7.1	3,99 (1.22)	80.6	5.30

⁽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

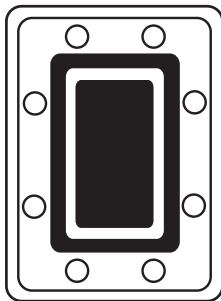


EU63-P-CPR137-G

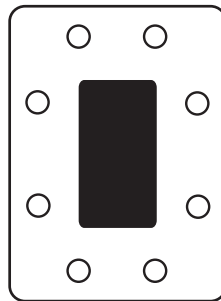
Features

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

Flange types



PDR70
CPR137-G



UDR70*
CPR137-F*

* on request

Technical characteristics

- Frequency range (GHz) 5.850 - 7.125
- 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 < 1.03

References

Flange type	Sealing Method	Reference
• PDR70	Threaded gasket	EU63-P-PDR70
• CPR137-G	Threaded gasket	EU63-P-CPR137-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-FT63-P
- see page 18
- EU-SG63
- EU-SH63
- see page 20
- see page 21
- EU-GK63
- see page 22
- EU-HG64
- see page 23
- see page 24
- EU-FGK63
- EU-HGK63

* 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.