



## WR42 Flexible Twistable Waveguide 12 Inches

Model: ESAT-FW-42-12-N-03-04-R

### Technical Data Sheet

#### Features

- WR42 (R220) operating frequency 10.0 - 15.0 GHz
- Flexible and twistable
- Flexible in both E and H plane
- Neoprene Rubber Jacket
- Brass Flanges
- Flange 1: Cover Flat - Square
- Flange 2: Cover Grooved - Square

#### Specifications

| Frequency         | Insertion Loss     | VSWR    |         | Power Rating |
|-------------------|--------------------|---------|---------|--------------|
| Operating         | Maximum dB/ft. (m) | <36 in. | >36 in. | Watts        |
| 18.00 - 26.50 GHz | 0.38 (1.25)        | 1.20    | 1.25    | 100          |

|                                                       |                           |
|-------------------------------------------------------|---------------------------|
| Waveguide Size -----                                  | WR42 (R220)               |
| Design -----                                          | Flexible and Twistable    |
| Length -----                                          | 12 inches                 |
| Static Bending Radius Rating Minimum, E-Plane -----   | 1.2 inches                |
| Static Bending Radius Rating Minimum, H-Plane -----   | 2.3 inches                |
| Repeated Bending Radius Rating Minimum, E-Plane ----- | 4.7 inches                |
| Repeated Bending Radius Rating Minimum, H-Plane ----- | 11 inches                 |
| Static Twisting Rating Maximum -----                  | 160 +/- deg/ft            |
| Repeated Twisting Rating Maximum -----                | 44 +/-deg/ft              |
| Static Length Tolerance -----                         | 0.13 (1%) +/- inches/foot |
| Static Internal Pressure Rating Maximum -----         | 45 psig                   |

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