

SEMI-FLEXIBLE RF COAXIAL CABLE WITH WAVEGUIDE ADAPTOR TRANSITIONS

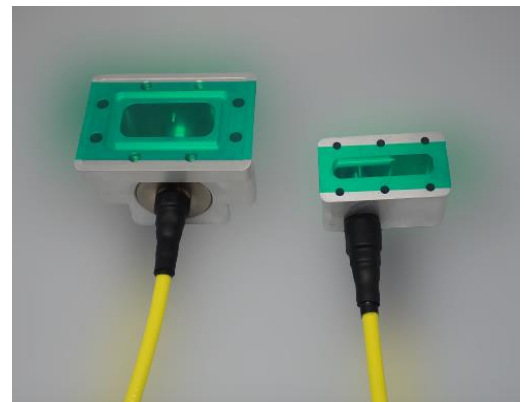
Applications

- Primarily used for smooth transition between different waveguide flanges for a wide variety of RF communication systems that carry typical frequencies between 3 -18GHz
- Can be used as extensions in a branching waveguide system for All-indoor Microwave Radio Solutions.
- Suitable for use in RF Labs or testing environment.

Features

- Compact and lightweight
- Easier to install and maintain than traditional rigid waveguide
- Extremely lower Passive Intermodulation (PIM) levels than conventional rigid or flex waveguides
- High Reliability and Mechanical tolerance

| WR229/ WG11A/ R40 TRANSITION | SPECIFICATION | |
|----------------------------------|-----------------|-------------------------------------|
| | PASSBAND | 3.50-4.20 GHz |
| | RETURN LOSS | 25 dB MIN |
| | INSERTION LOSS | 0.55/m dB MAX [0.70 / 1.14 / 1.41] |
| | INTERMODULATION | 142 dBc MIN at 31 dBm CARRIER |
| | INTERFACES | FLANGES: CPR-229/PDR40 /PBR40 |
| | WEIGHT | 1370g / 1420g / 1460g |
| WR187/ WG12 / R48 TRANSITION | SPECIFICATION | |
| | PASSBAND | 4.40-5.00 GHz |
| | RETURN LOSS | 25 dB MIN |
| | INSERTION LOSS | 0.55/m dB MAX [0.70 / 1.14 / 1.41] |
| | INTERMODULATION | 142 dBc MIN at 31 dBm CARRIER |
| | INTERFACES | FLANGES: CPR-187/PDR48/PBR48 |
| | WEIGHT | 1085g / 1140g / 1170g |
| WR137 / WG14 / R70 TRANSITION | SPECIFICATION | |
| | PASSBAND | 5.60-7.15 GHz |
| | RETURN LOSS | 25 dB MIN |
| | INSERTION LOSS | 0.55/m dB MAX [0.70 / 1.14 / 1.41] |
| | INTERMODULATION | 142 dBc MIN at 31 dBm CARRIER |
| | INTERFACES | FLANGES: CPR-137/PDR70/PBR70 |
| | WEIGHT | 710g / 765g / 800g |

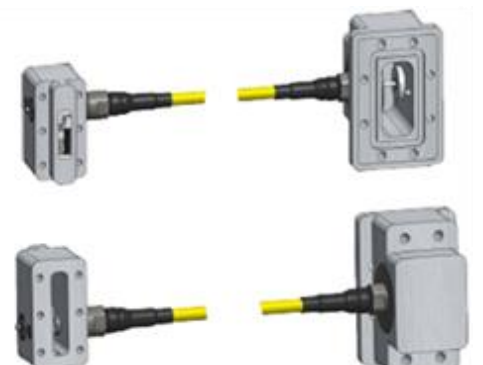


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| WR112 / WG15 / R84 TRANSITION | SPECIFICATION | |
|----------------------------------|-----------------|--------------------------------------|
| | PASSBAND | 7.10-8.50 GHz |
| | RETURN LOSS | 25 dB MIN |
| | INSERTION LOSS | 0.55/m dB MAX [0.70 / 1.14 / 1.41] |
| | INTERMODULATION | 142 dBc MIN at 31 dBm CARRIER |
| | INTERFACES | FLANGES: CPR-112/PDR84/PBR84 |
| | WEIGHT | 555g / 610g / 640g |
| WR75 / WG17 / R120 TRANSITION | SPECIFICATION | |
| | PASSBAND | 10.7-11.7 GHz |
| | RETURN LOSS | 25 dB MIN |
| | INSERTION LOSS | 0.55/m dB MAX [0.69 / 1.13 / 1.40] |
| | INTERMODULATION | 142 dBc MIN at 31 dBm CARRIER |
| | INTERFACES | FLANGES: CPR-75/PDR120/PBR120 |
| | WEIGHT | 390g / 445g / 475g |
| WR75 / WG17 / R120 TRANSITION | SPECIFICATION | |
| | PASSBAND | 12.6-13.3 GHz |
| | RETURN LOSS | 25 dB MIN |
| | INSERTION LOSS | 0.55/m dB MAX [0.69 / 1.13 / 1.40] |
| | INTERMODULATION | 142 dBc MIN at 31 dBm CARRIER |
| | INTERFACES | FLANGES: CPR-75/PDR120/PBR120 |
| | WEIGHT | 400g / 455g / 485g |



| COMMON SPECIFICATIONS | MECHANICAL SPECIFICATION | |
|-----------------------|---------------------------------|--|
| | MATERIAL | FLANGE: ALUMINUM 6061 CONNECTOR FEED: BRASS CONNECTOR FEED SEAL: EPOXY |
| | FINISH | FLANGE: CHEMICAL CONVERSION CONNECTOR FEED: NICKEL PLATE |
| | PRESSURISATION PDR SIDE ONLY | 90 hPa PRESSUSE LOST AFTER 6 HOURS 20 hPa MAX |
| | BEND RADIUS | 60 mm MIN BEND PROTECTION |
| | | 25.4 mm MIN STATIC 40 mm MIN DYNAMIC |
| | TORSION | ±90° ELECTRICAL COMPLIANT AFTER 10X |





SEMI-FLEXIBLE RF COAXIAL CABLE WITH WAVEGUIDE ADAPTOR TRANSITIONS

| CONFIGURATION LEGEND | | |
|--|---|-------------------------|
| PART NUMBER | 2500035-GROUP ID - LENGTH - FLANGE 1 - FLANGE 2 | |
| | 2500035-GROUP ID - LENGTH - FLANGE 1 - FLANGE 2 | |
| | 2500035-GROUP ID - LENGTH - FLANGE 1 - FLANGE 2 | |
| | 2500035-GROUP ID - LENGTH - FLANGE 1 - FLANGE 2 | |
| | 2500035-GROUP ID - LENGTH - FLANGE 1 - FLANGE 2 | |
| | 2500035-GROUP ID - LENGTH - FLANGE 1 - FLANGE 2 | |
| GROUPS | | |
| GROUP ID | 350 - 420 | 3.50-4.20 GHz |
| | 440 - 500 | 4.40-5.00 GHz |
| | 560 - 715 | 5.60-7.15 GHz |
| | 710 - 850 | 7.10-8.50 GHz |
| | 107 - 117 | 10.7-11.7 GHz |
| | 126 - 133 | 12.6-13.3 GHz |
| LENGTH | | |
| LENGTH | 2500 | 2500 mm |
| | 2000 | 2000 mm |
| | 1200 | 1200 mm |
| FLANGES | | |
| FLANGE 1 & FLANGE 2 | 01 | Flat & Thru Hole |
| | 02 | Flat & Threaded Hole |
| | 03 | Grooved & Thru Hole |
| | 04 | Grooved & Threaded Hole |

- Custom lengths and other flange types are also available.
- For more information, please contact us on any of our email addresses below and we will be happy to assist you.

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