

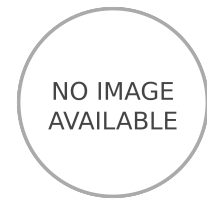


RFS rigid line components are available for both unpressurized (indoor) and pressurized, flanged (outdoor) systems. ;

Sizes available are 7/8", 1-5/8", 3-1/8", 4-1/2", 4-7/8", 6-1/8" and 7-3/16"◆.

All components are manufactured to the most exacting tolerances.

Other line sizes are available on special order.



FEATURES / BENEFITS

- ◆ Line inner and outer tubing is of high conductivity, hard-drawn, copper, milled to exact dimensions. Unflanged components for indoor use are polished and sprayed with a clear lacquer to maintain a high lustre finish
- ◆ Flanges and mitred elbow joints are TIG welded for maximum strength
- ◆ Captive PTFE dielectric insulators are used exclusively in lines and elbows to ensure precision mating and stability of components after assembly
- ◆ All inner conductor connectors are silver plated
- ◆ All components conform to the relevant EIA or IEC standards

Technical features

STRUCTURE

| | | |
|---------------------------|---------|--|
| Product Line | | Components |
| Product Type | | Copper Rigid Line Components 7-3/16" 50 ohm |
| Size | | 7-3/16 |
| Feeder Type | | Air Dielectric, solid inner and outer PTFE spacers |
| Conductor Material | | High conductivity copper tube |
| Outer Conductor OD | mm (in) | 181.5 (7.144) |
| Outer Conductor ID | mm (in) | 177.7 (6.996) |
| Inner Conductor OD | mm (in) | 50.8 (2) |
| Inner Conductor ID | mm (in) | 48.8 (1.92) |

ELECTRICAL SPECIFICATIONS

| | | |
|-----------------------------------|---------|--|
| Frequency Range | MHz | 50 - 862 |
| Frequency Band | | VHF Band I, VHF Band II, VHF Band III, UHF Band IV/V |
| Impedance, ohms | Ω | 50 +/- 0.5 |
| Velocity | % | 99,8 |
| Peak Power Rating | kW | 2884 |
| RF Peak Voltage, Volts | V | 20800 |
| Part number EIA Flanged RL | | 55,755 |
| Length EIA Flanged RL | mm | 55 |
| Isolation | dB | 32 |
| Output Power Split | dB | 3 +/- 0.15 Note#2 |
| Output Phase | degrees | 90 +/- 1 Note#2 |

MECHANICAL SPECIFICATIONS

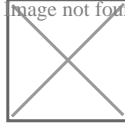
| | | |
|------------------------------------|--------------|------------|
| Weight | kg/m (lb/ft) | 11.8 (7.9) |
| Flange Weight | kg (lb) | 2.5 (5.5) |
| Flange Standard | | EIA |
| Standard lengths | m (ft) | 5.5 (18) |
| Max. indoor clamp spacing | m (ft) | 2 (6.5) |
| Max. exterior clamp spacing | m (ft) | 1.3 (4) |



ORDERING INFORMATION

| | | |
|--------------------------|---|--------|
| Length Unflanged RL | m | 55 |
| Part number Unflanged RL | | 57,855 |

Image not found or type unknown



External Document Links
[RigidLineComponents.pdf](#)

Notes