



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

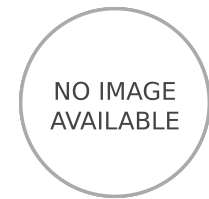
Sizes available are 7/8", 1-5/8", 3-1/8", 4-1/2", 4-7/8", 6-1/8" and 7-3/16".

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 4-1/2" 50 ohm
Size		4-1/2
Feeder Type		Air Dielectric, solid inner and outer PTFE spacers
Conductor Material		High conductivity copper tube
Outer Conductor OD	mm (in)	106 (4.173)
Outer Conductor ID	mm (in)	103 (4.055)
Inner Conductor OD	mm (in)	44.8 (1.764)
Inner Conductor ID	mm (in)	42.8 (1.685)

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	1586
RF Peak Voltage, Volts	V	12600
Part number EIA Flanged RL		38,755
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

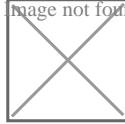
Weight	kg/m (lb/ft)	5.5 (3.69)
Flange Weight	kg (lb)	1.5 (3.3)
Flange Standard		IEC
Standard lengths	m (ft)	5.5 (18)
Max. indoor clamp spacing	m (ft)	2 (6.5)
Max. exterior clamp spacing	m (ft)	1.2 (4)



ORDERING INFORMATION

Length Unflanged RL	m	55
Part number Unflanged RL		38,855

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External Document Links
[RigidLineComponents.pdf](#)

Notes