



PRODUCT FEATURES

Transmission Line 3 1/8" – DC ÷ 1.5GHz

- High-performance rigid transmission copper-copper or aluminum-copper conductors
- Low VSWR
- Low Insertion Loss
- Clamp-type flange system
- Modular jointing components
- Impedance: 50Ω
- Insulator: PTFE

GENERAL FEATURES

MAXIMUM RMS INPUT POWER ^(1;2)

VHF B.I (88MHz): **55kW**
 VHF B.II (108MHz): **48kW**
 VHF B.III (230MHz): **35kW**
 UHF (860MHz): **18kW**

ELECTRICAL and MECHANICAL DATA

ATTENUATION ^(1;3)

VHF B.I (88MHz): **0.33** dB/100mt
 VHF B.II (108MHz): **0.35** dB/100mt
 VHF B.III (230MHz): **0.50** dB/100mt
 UHF (860MHz): **0.94** dB/100mt

WEIGHT

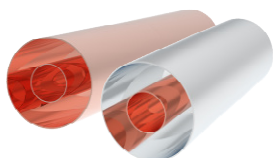
3,71 Kg/mt (2.49 lbs/ft)
 copper-copper
1,81 Kg/mt (1.22 lbs/ft)
 aluminum-copper

ELECTRICAL and MECHANICAL DATA

WEIGHT

0.4 Kg (0.88 lbs)

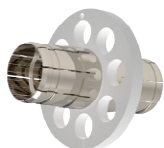
Rigid Line



PRODUCT CODE:

RL318-IC
 Copper inner conductor
RL318-OA
 Aluminum outer conductor
RL318-OC
 Copper outer conductor

Inner conductor support



PRODUCT CODE:

RL318S

Recommended for use on 3 1/8" transmission line runs longer than 1.5m (5')

⁽¹⁾ Default Specific band configurations available ⁽²⁾ Altitude < 1525 mt (5000 ft) and +30° C (86° F) air dry temperature ⁽³⁾ Sea level, and +20° C (68° F) air dry temperature, VSWR 1.0
⁽⁴⁾ Return Loss (VSWR) value is referred 700MHz

Clamping Flange



PRODUCT CODE:
RL318F-C-A
Aluminum
RL318F-C-B
Brass

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	0,7 Kg (1.54 lbs) – Aluminum 1,9 Kg (4.19 lbs) – Brass

EIA Inner



PRODUCT CODE:
RL318I

ELECTRICAL and MECHANICAL DATA

WEIGHT	0.4 Kg (0.88 lbs)
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Rigid Line Joint



PRODUCT CODE:
RL318J

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	4,0 Kg (8.82 lbs)

90° Elbow Clamping-Clamping



PRODUCT CODE:
RL318E-FF

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	3,5 Kg (7.72 lbs)

90° Elbow EIA Flange-Clamping



PRODUCT CODE:
RL318E-CF

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	4,4 Kg (9.70 lbs)

90° Elbow EIA Flange-EIA Flange



PRODUCT CODE:
RL318E-CC

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	5,50 Kg (12.13 lbs)

⁽¹⁾ Default Specific band configurations available ⁽²⁾ Altitude < 1525 mt (5000 ft) and +30° C (86° F) air dry temperature ⁽³⁾ Sea level, and +20° C (68° F) air dry temperature, VSWR 1.0
⁽⁴⁾ Return Loss (VSWR) value is referred 700MHz

45° Elbow Clamping-Clamping



PRODUCT CODE:
RL318E-FF-1

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	3,1 Kg (6.83 lbs)

45° Elbow EIA Flange-Clamping



PRODUCT CODE:
RL318E-CF-1

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	4,0 Kg (8.82 lbs)

45° Elbow EIA Flange-EIA Flange



PRODUCT CODE:
RL318E-CC-1

ELECTRICAL and MECHANICAL DATA

RETURN LOSS ⁽⁴⁾ (VSWR)	> -36.6 dB < 1.03
WEIGHT	5,1 Kg (11.24 lbs)

⁽¹⁾ Default Specific band configurations available ⁽²⁾ Altitude < 1525 mt (5000 ft) and +30° C (86° F) air dry temperature ⁽³⁾ Sea level, and +20° C (68° F) air dry temperature, VSWR 1.0
⁽⁴⁾ Return Loss (VSWR) value is referred 700MHz