



astro-TC 32026

HIGH FREQUENCY/GENERAL PURPOSE HIGH SHIELDED COAXIAL TEST CABLE ASSEMBLIES

Product Description

Astrolab, Inc. coaxial test cable assemblies are high frequency, low loss cables which have five shields for superior RF isolation. The internal Stainless steel outer braid provides higher pull strength and lighter weight than RG style cables.

Product Features

- Amplitude Stability: : <0.1 dB at 26.5 GHz for 200 Flexes 180° in One Plane Around a 2" Radius, 0.2dB with 600 Flexes
- VSWR @ 40 GHz = 1.32:1 Typ., 1.50:1 Max.
- VSWR @ 26.5 GHz = 1.30:1 Typ., 1.45:1 Max. VSWR @ 18 GHz = 1.25:1 Typ., 1.35:1 Max.
- Five Screens For Superior RF Shielding (-120dB)
- Steel Outer Shield For High Pull Strength see technical data chart below.
- Low Cost, Available From Stock.

TECHNICAL DATA

Cable	Nominal Impedance	Velocity	Capacitance	Bend Radius	Connector Pull Test	Operating Temperature
32026*	50	76%	27.2 pf	2 inches	50 lbs.	-55°C to +125°C

Note: * Flexing the cable 0° to 180° for 800 flexes, around a 2 inch radius, phase will change less than 3 degrees at 18 GHz with normalizing phase between every 100 flexes. For a single bend of 5 inch radius, phase will change < 0.1° /GHz.

CABLE ASSEMBLY INSERTION LOSS CHARTS

26.5 GHz (SMA Plug to SMA Plug)			
Cable Assembly Number	Length Inches	IL TYP(dB)	IL MAX(dB)
32026-29094-29094-24TC	24	1.51	1.74
32026-29094-29094-36TC	36	2.12	2.41
32026-29094-29094-48TC	48	2.71	3.08

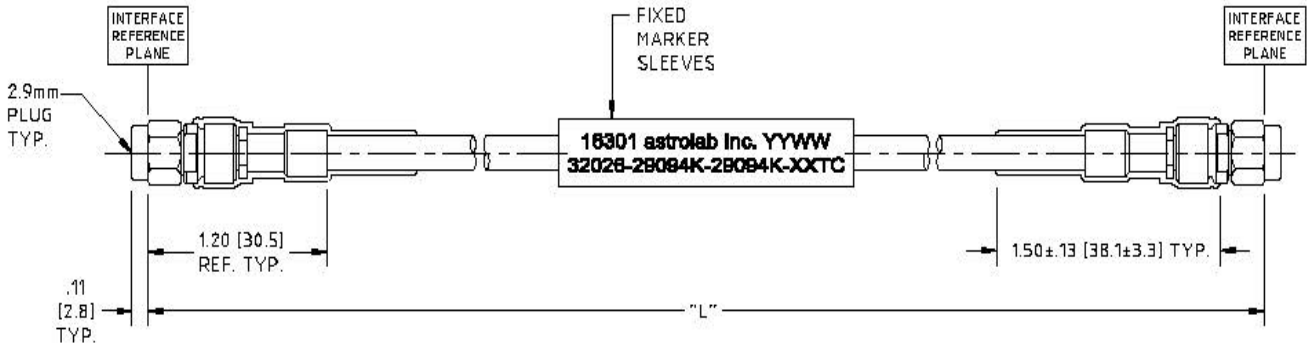
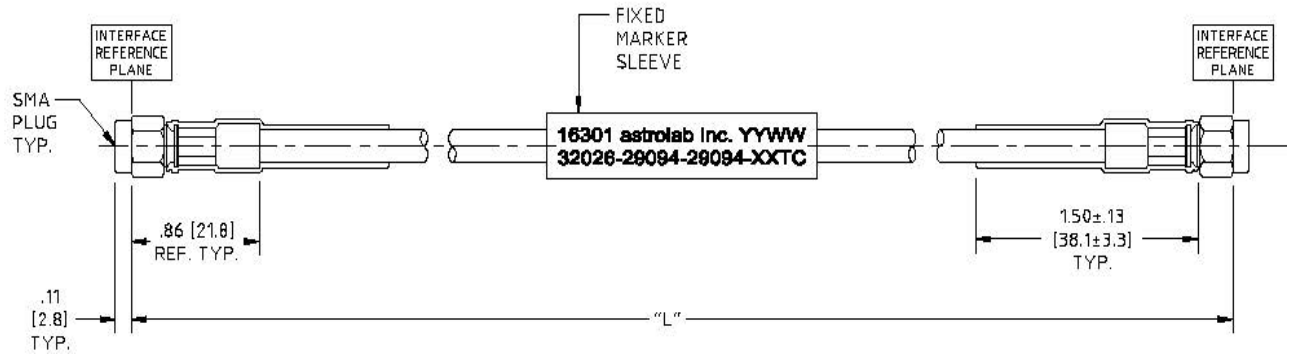
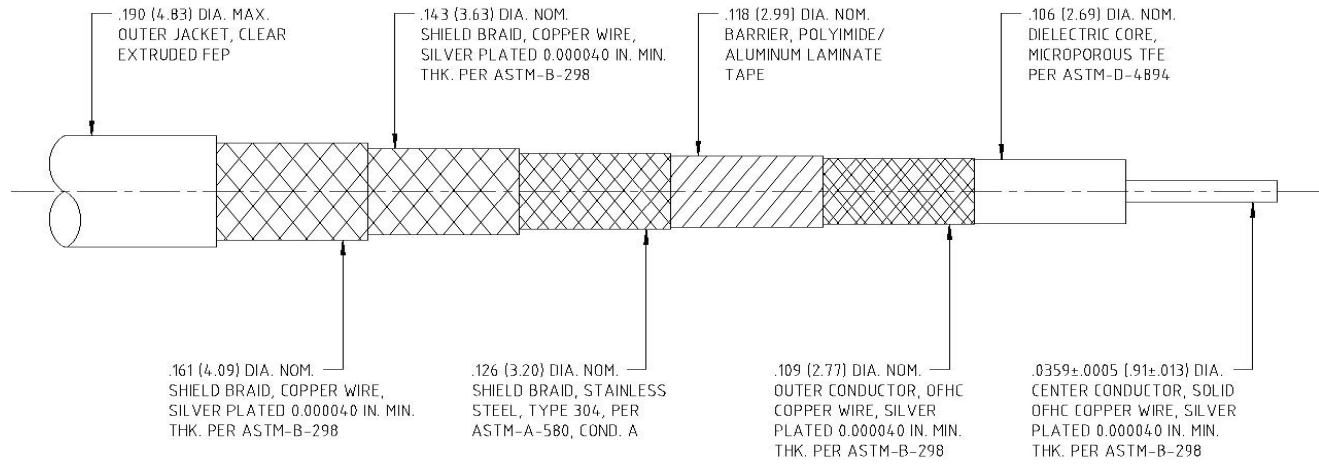
40 GHz (2.9mm Plug to 2.9mm Plug)			
Cable Assembly Number	Length Inches	IL TYP(dB)	IL MAX(dB)
32026-29094K-29094K-24TC	24	1.94	2.20
32026-29094K-29094K-36TC	36	2.65	3.03
32026-29094K-29094K-48TC	48	3.37	3.87

APPLICATION REQUIREMENTS

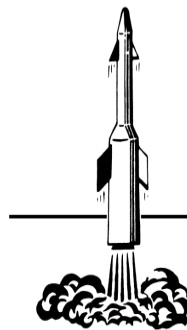
Following an initial review of the application information, Astrolab will study the environmental, quality, and design requirements to determine the candidate materials and processes which will result in the highest probability of success. The application information requested below is required to determine the proper Astrolab cable assembly to meet your specifications.

- Frequency Range (GHz)
- Maximum Insertion Loss (dB)
- Maximum VSWR
- Phase Matching Tolerance
- Power Handling Watts Average, Watts Peak
- Operating Temperature Range
- Storage Temperature Range
- Relative Humidity
- Other Environmental or Design Considerations
- Specific Handling Requirements

TYPICAL CONSTRUCTION



See our catalog for additional information on Astrolab products and ordering information.



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 AS9100 and ISO 9001 CERTIFIED



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