



## astro-TC - test cables

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### astro-TC

#### high frequency/general purpose coaxial test cable assemblies

#### Product Description

Astrolab, Inc. coaxial test cable assemblies are high frequency, low loss cables which are triple shielded for superior RF isolation. Stainless steel outer braid provides higher pull strength and lighter weight than RG style cable. Nomex and polyolefin jackets are also available.



#### Application Requirements

Astrolab will study any special environmental, quality and design requirement to determine the candidate materials and processes which will result in the highest probability of success.

#### Product Features

-Amplitude Stability: < 0.1dB at 26.5 GHz for 200 Flexes 180° in One Plane Around a 2" Radius, 0.2dB with 600 Flexes.

-VSWR @ 26.5 GHz = 1.30:1 Typ., 1.40:1 Max.

-VSWR @ 18 GHz = 1.25:1 Typ., 1.35:1 Max.

-VSWR @ 40 GHz = 1.30:1 Typ., 1.45:1 Max.

-Triple Shielded For Superior RF Leakage (-110dB)

-32029 Has Five Shields for Unsurpassed Isolation

-Steel Outer Shield For High Pull Strength (see technical data chart below.)

-Low Cost, Available From Stock.

#### Cable Information

Cable	Nominal Impedance	Velocity	Capacitance	Bend Radius	Min. WT. / 100"	Connector Pull Test	Operating Temperature
32027	50	70.3%	29.2 pf	2 inches	2.8 lbs.	50 lbs.	0°C to +65°C
32022*	50	76%	27.2 pf	2 inches	2.1 lbs.	30 lbs.	-65°C to +125°C
32029*	50	76%	27.2 pf	2 inches	4.2 lbs.	50 lbs.	-65°C to +125°C

\*Phase Stable cable assemblies: Defined as 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.

	'A' DIA. NOM OUTER JACKET FEP	'B' DIA. NOM OUTER BRAID 104 STN. STL	'C' DIA. NOM AL/POLYIMIDE TAPE	'D' DIA. NOM INNER BRAID BRAIDED OFHC COPPER WIRE SILVER COATED	'E' DIA. NOM DIELECTRIC TFE	'F' DIA. NOM CENTER CONDUCTOR SOLID OFHC COPPER WIRE SILVER COATED ANNEALED
CABLE	'A'	'B'	'C'	'D'	'E'	'F'
32027	0.167	0.145	0.128	0.123	0.116	0.036
32022	0.142	0.126	0.119	0.110	0.107	0.036
32029	0.185	0.126 *	0.119	0.110	0.107	0.036

NOTE: \* PLUS TWO ADDITIONAL TIN COATED BRAIDS FOR OVERALL BRAID DIAMETER OF .158

**18 GHz (N Plug to N Plug)**

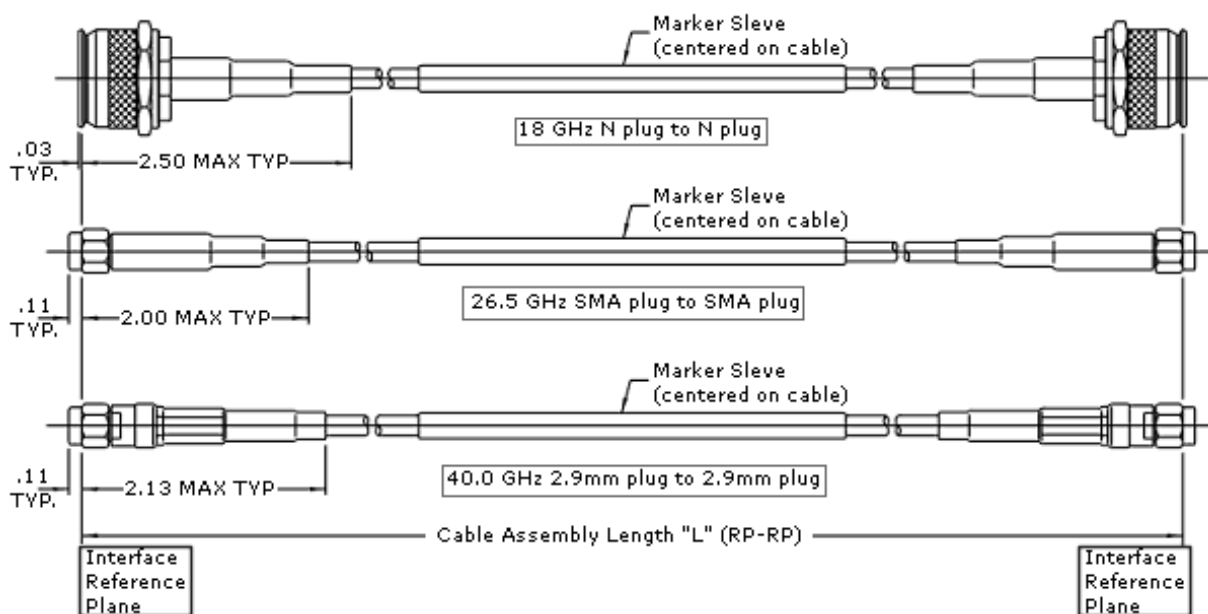
Cable Assembly Number	Length Inches	IL TYP (dB)	IL MAX (dB)
32027-2-29080-24TC	24	1.49	1.68
32027-2-29080-36TC	36	2.14	2.33
32027-2-29080-48TC	48	2.79	2.98
32022-2-29080-24TC	24	1.29	1.48
32022-2-29080-36TC	36	1.84	2.03
32022-2-29080-48TC	48	2.39	2.58
32029-2-29080-24TC	24	1.29	1.48
32029-2-29080-36TC	36	1.84	2.03
32029-2-29080-48TC	48	2.39	2.58

**26.5 GHz (SMA Plug to SMA Plug)**

Cable Assembly Number	Length Inches	IL TYP (dB)	IL MAX (dB)
32027-2-29094-24TC	24	1.9	2.16
32027-2-29094-36TC	36	2.72	2.98
32027-2-29094-48TC	48	3.54	3.8
32022-2-29094-24TC	24	1.62	1.88
32022-2-29094-36TC	36	2.3	2.56
32022-2-29094-48TC	48	2.98	3.24
32029-2-29094-24TC	24	1.62	1.88
32029-2-29094-36TC	36	2.3	2.56
32029-2-29094-48TC	48	2.98	3.24

**40 GHz (2.9mm Plug to 2.9mm Plug)**

Cable Assembly Number	Length Inches	IL TYP (dB)	IL MAX (dB)
32022-2-29094K-24TC	24	2.00	2.40
32022-2-29094K-36TC	36	2.95	3.30
32022-2-29094K-48TC	48	3.75	4.13
32029-2-29094K-24TC	24	2.00	2.40
32029-2-29094K-36TC	36	2.95	3.30
32029-2-29094K-48TC	48	3.75	4.13



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