



Applications :

- 5G development
- Research & Development Labs
- Bench VNA's and analyzers
- High Volume Production Test
- RF Module Testing

When everything is important, Times new Clarity™ Series is the clear choice. Industry-leading performance and unparalleled value.

- Broad Frequency Response
- Rugged & Durable
- Predictable over Temperature
- Solid Connector Retention
- RF Stable with Flexure
- Consistent between Batches
- Long Flex Life
- Ergonomically Designed
- Attractive Appearance

Ordering Information:

Clarity Series
Steel Armored
50 GHz

CLS50-XXXXXX-XX.XXX

Every half foot or quarter meter
(1.5ft or 0.5m is the shortest)
Example: -01.50F = 1.5ft

F= feet
M=meters

24M = 2.4mm male

24F = 2.4mm female

2RF = 2.4mm ruggedized female



Abrasion resistant PTFE braid and interlayer
 Stainless steel wire round braid
 Stainless steel spring
 FEP Jacket
 Silver plated copper round wire braid
 Helically interlayer
 Times Solid TF-4 Dielectric
 Solid Silver plate copper center conductor

Connectors & Strain Relief:

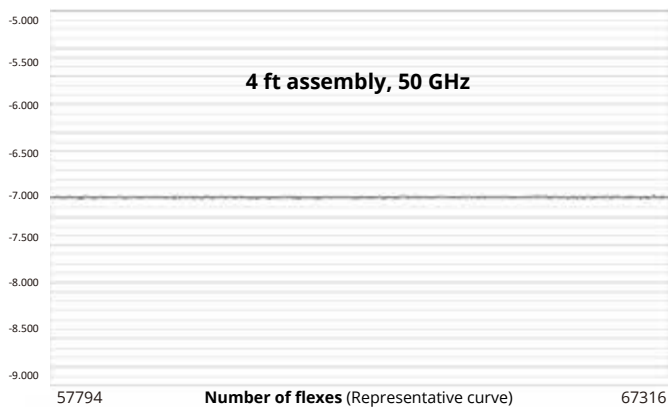
- User friendly stainless steel SureGrip™ knurled coupling nut
- Unique, elliptical-shaped, Sure-Grip™ injected molded strain relief



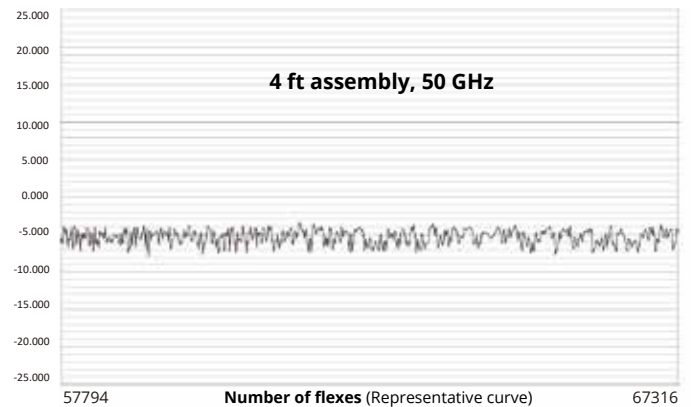
| Mechanical Specifications | | | | |
|--|--------------|------------------|---------------|---------------|
| Dimensions | | in | mm | |
| Armored Diameter: armor/strain relief | | 0.29 / 0.50 | 7.95 / 12.70 | |
| Min bend radius, armored (max flex life) | | 1.5 (3.0) | 38 (76) | |
| Crushing (armored version) | | 200 lbs/lin.in. | | |
| Flex life ¹ | | 50,000 | | |
| Temperature Range | | -67°/+ 257°F | -55°/+125°C | |
| Electrical Specifications (50GHz) | | | | |
| Impedance | | 50 Ohms | | |
| Velocity of Propagation | | 70% | | |
| Shielding Effectiveness | | > 100 dB | | |
| Capacitance | | 29pf/ft (95pf/m) | | |
| VSWR (typ/max) | | 1.30:1 / 1.40:1 | | |
| Phase Stability (degrees)* | typical | +/- 4.0 | | |
| Amplitude Stability (dB)* | typical | +/- 0.08 | | |
| Attenuation, max | @77°F (25°C) | 18 GHz | 40 GHz | 50 GHz |
| | | 0.93 | 1.50 | 1.72 |
| | | (3.06) | (4.93) | (5.64) |
| | | dB/m | | |
| Attenuation (per 100ft) at any frequency: 0.5556*√f(MHz) + 0.0008*f(MHz) | | | | |

1. As tested using Times' flex testing methods. 4ft long cable. Longer cables can have more total instability. Assumes test equipment is calibrated every 8 hours. New cables can have a break in period of several hundred flexes before optimum stability occurs. Contact your Times representative or the factory for a copy of this test procedure and/or actual test results.

Amplitude Stability while in motion



Phase Stability while in motion



Always :

- Inspect interfaces before every mate. Clean frequently
- Gently start the coupling nut. Fully thread & tighten w/fingers first
- Use a calibrated torque wrench
- Cap connectors and protect the assembly when not in use

Never :

- Force the cable beyond the recommended minimum bend radius
- Force two connectors. If any resistance is felt STOP and examine
- Mate connectors that have non-concentric contacts
- Insert foreign or dirty objects into the interface

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