

Clarity[™] Series

50 GHz Test Cables



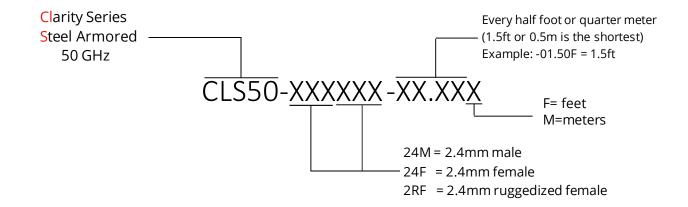
Applications :

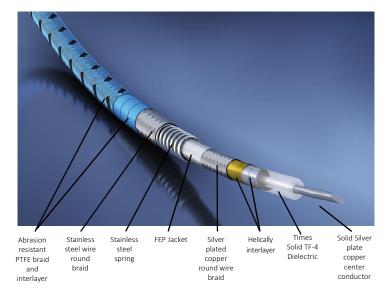
- 5G development
- Research & Development Labs
- Bench VNA's and analyzers
- High Volume Production Test
- RF Module Testing

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 Appearence

Ordering Information:





Connectors & Strain Relief :

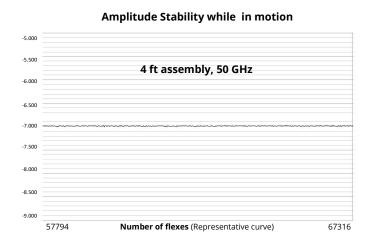
- User friendly stainless steel SureGrip[™] knurled coupling nut
- Unique, elliptical-shaped, Sure-Grip™ injected molded strain relief



Mechanical Specifications	
Dimensions	in mm
Armored Diameter: armor/strain relief	0.29 / 0.50 7.95 / 12.70
Min bend radius, armored (max flex lif	e) 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
dB/ft	0.93 1.50 1.72
(dB/m)	(3.06) (4.93) (5.64)

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.



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

25.000 20.000 15.000 5.000 -5.000

Phase Stability while in motion

Never:

57794

-25.000

• Force the cable beyond the recommended minimum bend radius

Number of flexes (Representative curve)

- 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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Mouser Electronics

Authorized Distributor

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Amphenol:

<u>CLS50-24M24M-02.00F</u> <u>CLS50-24M24M-04.00F</u> <u>CLS50-24M24M-06.00F</u> <u>CLS50-24M2RF-02.00F</u> <u>CLS50-24M2RF-02.00F</u>