When everything is important, Times new Clarity™ Series is the clear choice. Industry-leading performance, unparalleled value, and stock to 4-week lead times.

- Broad Frequency Response
- Ruggedness & Durability
- Wide Temperature Range
- Crush & Kink Resistance
- Torque Resistance
- Connector retention
- Low Attenuation
- RF stability with flexure
- Consistency
- Reliability
- Flexibility
- Ergonomics
- Aesthetics
- Lead Time
- Cost of ownership

Applications:
- Research & Development Labs
- VNA Test Port Extension cables
- Scalar Analyzers
- High Volume Production Test
- System Level RF Connection
- Test Rack Interconnect
- Bench or Portable Test Equipment
- Antenna Ranges
- Anechoic Chambers
- RF Module Testing

Ordering Information:

Clarity™ Series 18, 26.5, and 40 GHz Test Cables

Ordering Information:

CLXXX-XXXX-XX.XXX

U = unarmored
S = steel armored
SM = SMA male (18 or 26.5 GHz)
NM = Type N male (18 GHz)
KM = 2.92mm male (40 GHz)
KF = 2.92mm female (40 GHz)

Ex: NMKF is correct, KFNM is incorrect

18 = 18 GHz
26 = 26.5 GHz
40 = 40 GHz

Every half foot or quarter meter
1.5 ft (0.50m) are shortest lengths

F = feet
M = meters

First Connector
Second Connector
**Connectors & Strain Relief:**

- Super-sharp stainless steel SureGrip™ knurled coupling nut
- Unique, elliptical-shaped, Sure-Grip™ injected molded strain relief (Armored version only)

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**Mechanical Specifications**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>in</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armored Diameter: armor/strain relief</td>
<td>0.29 / 0.50</td>
<td>7.95 / 12.70</td>
</tr>
<tr>
<td>Unarmored Diameter: cable/strain relief</td>
<td>0.190 / 0.425</td>
<td>5.5 / 10.8</td>
</tr>
<tr>
<td>Min bend radius, armored (max flex life)</td>
<td>1.5 (3.0)</td>
<td>38 (76)</td>
</tr>
<tr>
<td>Min bend radius, unarmored (max flex life)</td>
<td>1.0 (2.0)</td>
<td>25 (50)</td>
</tr>
<tr>
<td>Flex Life* (unarmored/armored)</td>
<td>25,000 / 50,000</td>
<td></td>
</tr>
<tr>
<td>Crushing (armored version)</td>
<td>200 lbs/lin.in.</td>
<td></td>
</tr>
<tr>
<td>Mating life cycle**</td>
<td>5000</td>
<td></td>
</tr>
<tr>
<td>Temperature range***</td>
<td>-67°/257°F</td>
<td>-55°/125°C</td>
</tr>
</tbody>
</table>

**Electrical Specifications**

- Impedance: 50 ohms
- Velocity of Propagation: 78%
- Shielding Effectiveness: > 100 db
- Capacitance: 26pf/ft (85pf/m)
- VSWR (maximum): 1.20:1, 1.25:1, 1.35:1
- Attenuation, max @ 77°F (25°C) db/100 ft: 51, 63, 82
- Attenuation, max @ 77°F (25°C) db/100 m: (167), (206), (269)

**Cable Power Handling (Cable Only)**

| @77°F (25°C) sea level, watts (max) | 18 | 15 | 13 |

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**Amplitude Stability while in motion**

- 4 ft assembly, 40 Ghz

**Phase Stability while in motion**

- 4 ft assembly, 40 Ghz

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**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
- Have replacements available in the event they are needed

**Never:**

- Force the cable beyond the recommended minimum bend radius
- Force two connectors. If any resistance is felt STOP and examine
- Mate 2.92mm to other than SMA or 3.5mm series
- Mate connectors that have non-concentric contacts
- Insert foreign or dirty objects into the interface

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*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.

**SMA and Type N male only. Achieving or extending mating life requires the strict use of a calibrated torque wrench at all times and careful, deliberate mating so as not to damage center contacts. Inspect and clean all interfaces frequently and check that mating interfaces are within IEEE 287 connector standards. Failure to do so may void warrantee.

***Tested for one hour at max temp. Strain relief may retain some of the flexed shape.