# Ultra Low Loss Test Cable Range

## *Ultra Low Loss Test Cable Assembly*

TestPro 5 and TestPro 8 benefit from Radiall's 30 years of expertise in manufacturing Ultra Low Loss microwave cables. The low density PTFE tape wrapping elevates TestPro 5 and TestPro 8 to be top performers in the market.

Radiall's cable assemblies are reinforced to meet Test and Measurement requirements and are terminated with ruggedized TestPro connectors. The combination of the unique center contact captivation system and attachment method ensures reliability throughout the product life cycle and multiple matings.

TestPro Ultra Low Loss Test and Measurement cables are designed for when loss becomes an issue and are suitable for high power applications. They offer phase stability with temperature which allows them to be used in temperature chambers.

| Properties | TestPro 5 | TestPro 8 |
|---|---|---|
| Frequency range | DC - 26.5 GHz | DC - 18 GHz |
| Impedance | 50 Ω ± 1 Ω | 50 Ω ± 1 Ω |
| IL (dB/m) | 1.02 @ 18 GHz - 1.27 @ 26.5 GHz | 0.68 @ 18 GHz |
| IL (dB/ft) | 0.31 @ 18 GHz - 0.39 @ 26.5 GHz | 0.21 @ 18 GHz |
| Phase with flexure stability typ. | 4.3° @ 18 GHz | 4.3° @ 18 GHz |
| Phase with flexure stability max. | 0.09° @ 18 GHz | 0.09° @ 18 GHz |
| Amplitude stability (dB) typ. | 0.09 @ 18 GHz | 0.09 @ 18 GHz |
| Amplitude stability (dB) max. | 0.18 @ 18 GHz | 0.18 @ 18 GHz |
| Shielding effectiveness | -110 dB min @ 1 GHz | -110 dB min @ 1 GHz |
| Crush resistance | 40 lb/linear in.* | 60 lb/linear in.* |
| Minimum bend radius | 25 mm (1 in.) | 40 mm (1.6 in.) |
| Temperature (°C) | -55 / +125°C | -55 / +125°C |
| Connectors | SMA - N - TNC | SMA - N - TNC |
| Flexure life cycle | 5,000 | 5,000 |
| Mating cycles durability | 5,000 | 5,000 |
| Armor | Available | Available |
| ROHS / REACH | Yes | Yes |

**1 lb/linear in. = 17.5 N/100 mm*






