



Test Reference Cable Specification

Fibre optic test reference cables terminated in our specialist UK facility. Our test reference cables are manufactured with optimised geometry and enhanced optical performance to ensure repeatable, accurate, high performance physical contact of fibre connectors under test. Our cables are terminated with the highest quality (A Grade) physical contact optical ferrule connectors. Leader Optec manufacture cables at the highest standards and conform to all IEC, EIA-TIA and Telecordia requirements.



Connector Specification

OPTICAL PERFORMANCE	Multimode	Single-mode
Insertion Loss	$\leq 0.1\text{dB}$	$\leq 0.1\text{dB}$
Return Loss	UPC $\geq 35\text{dB}$; APC $\geq 40\text{dB}$	UPC $\geq 50\text{dB}$; APC $\geq 60\text{dB}$
Geometrical Parameters		
Eccentricity of core for the centre of ferrule	$\leq 0.5\mu\text{m}$	$\leq 0.5\mu\text{m}$
Ferrule ID	126 μm	125.5 μm
Ferrule OD		
- Standard Connectors	2.499mm	2.499mm
- SFF Connectors	1.249mm	1.249mm
Apex Offset	$\leq 30\mu\text{m}$	$\leq 30\mu\text{m}$
Fibre Height	-30 μm	-30 μm
Radius of Curvature		
- Standard Connectors	PC 10-20mm APC N/A	10-20mm 7-15mm
- SFF Connectors	PC/APC 7-12mm	7-12mm
Durability (500 times)	$\leq 0.1\text{db}$	$\leq 0.1\text{db}$
Operating temperature	-40~+85°C	-40~+85°C
Storage Temperature	-40~+85°C	-40~+85°C
Typical Cable OD(mm)	$\varnothing 2.0$	$\varnothing 2.0$

Applications

- In-field optical network testing
- Testing laboratories
- Termination houses/facilities
- Data centre applications
- Instrumentation