

LITEflight® EP Fiber Optic Cables



Ruggedized Simplex

INTRODUCTION

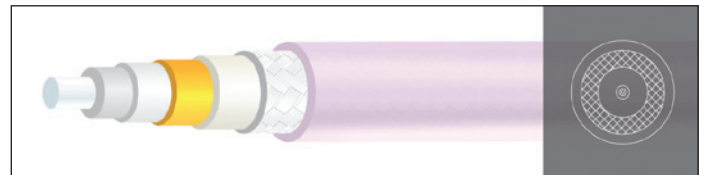
Amphenol CIT introduces the LITEflight® EP (Enhanced Performance) family of aerospace grade fiber optic cables. The new LITEflight® EP series provides all the performance and benefits of its predecessor necessary to function in the harsh environments of your aerospace and military applications but with lower loss, tighter bend radius, improved thermal stability and better handling during termination and installation. Unlike tight structure cables, the LITEflight® EP semi-loose structured cables are compatible with all commercially available fiber optic termini and connectors. LITEflight® EP is available in multiple sizes, configurations and temperature ratings to 260°C in order to meet the most demanding application requirements.

LITEflight® EP Characteristics	NFO(EP)-125-1	NFO(EP)-125-3M4
	Typical Value	Typical Value
Outside Diameter	1.8 mm	1.8 mm
Cable Weight	4.6 kg/km	4.6 kg/km
Minimum Bend Radius		
Short Term (Installation)	6.0 mm	6.0 mm
Long Term (Operation / Storage)	9.0 mm	9.0 mm
Attenuation		
850 nm	2.8 dB/km	2.9 dB/km
1300 nm	0.6 dB/km	0.8 dB/km
Temperature Cycling	0.10 dBA/30 m	0.10 dBA/10 m
Thermal Shock	0.10 dBA/30 m	0.10 dBA/10 m
Buffer Push-In Force	2.0 N/.45 mm	2.0 N/.45 mm
Cable Kink Resistance		
6.3 mm Loop Diameter	0.18 dBA	0.18 dBA

STANDARD CONFIGURATIONS OVERVIEW

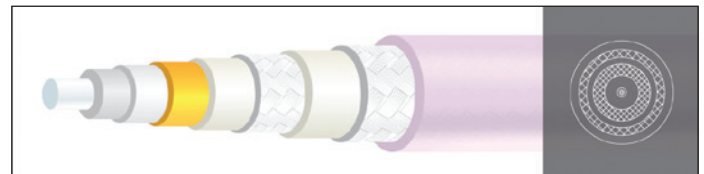
Simplex

Actual Size / 1.8mm ●



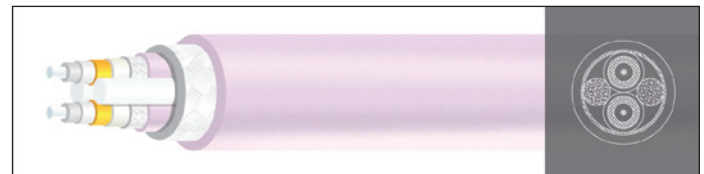
Ruggedized Simplex

Actual Size / 2.74mm ●



Ruggedized Duplex

Actual Size / 4.95mm ●



Ruggedized Quad

Actual Size / 5.72mm ●

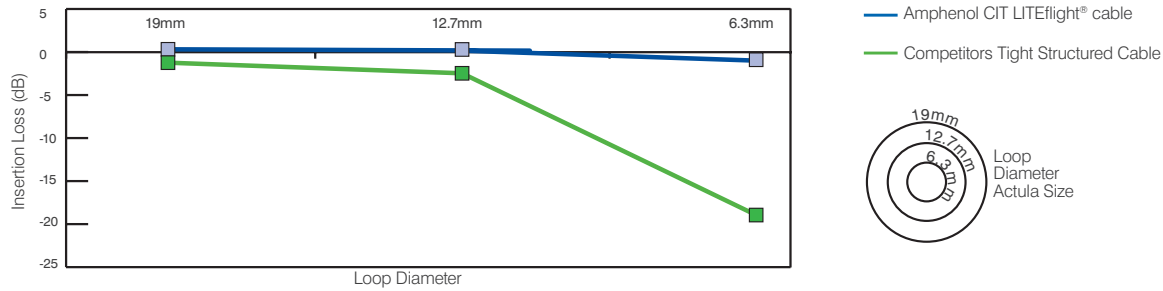


*All testing performed in accordance with EN-3745 or ARINC 802 Methods.

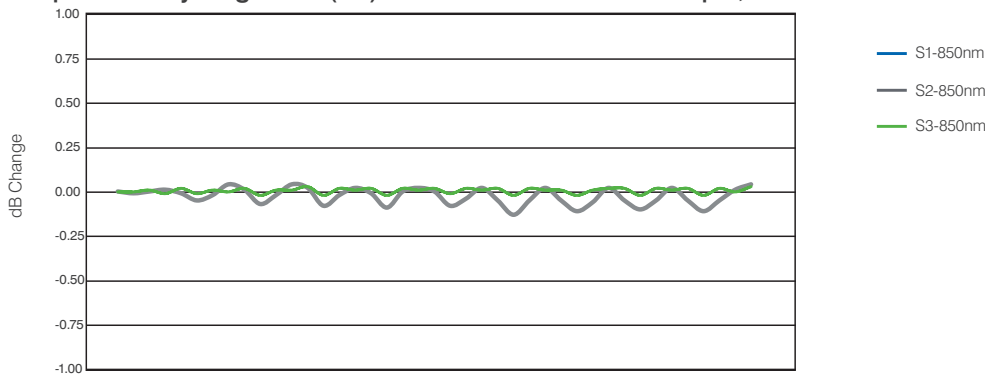
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PERFORMANCE EXAMPLES

Cable Kink Performance Loss (per EN3745-509)



Temperature Cycling / NFO(EP)-125-3M4 / 10m Cable Sample; -65°C to +125°C



PART NUMBER GUIDE

