Datasheet

LC-QR Uniboot



- The LC-QR (QR=QuickRelease) Uniboot is designed for high density applications. The Connector can be released by pulling the housing or the boot.
- IEC 61754-20 compatible (Adapter, Transceiver)
- Our Connectors are the key components for a low loss, broadband data transmission in fiber optic networks.
- The constantly growing demand for higher data transmission capacities places exceptionally stringent qualitative criteria on present and future telecommunication networks.
 Interconnectivity components are the key for powerful fiber optic networks.

 Mechanical, optical and geometrical precision are the quality features necessary to reduce transmission losses to an

absolute

- minimum at fiber transition. Our SM connectors are tunable in 60° steps. Independent of the Grade all assemblies are 100% tested. Constant Quality Control ensures best performance.
- R&MinteliPhy can be retrofitted.

Technical data sheet connector

PERFORMANCE ACCORDING DEFINITION R&M

DEFINITION IL / RL @ R&M	GRADE A*/1	GRADE A*/2	GRADE B/1	GRADE B/2
Insertion loss (IL) 97%	≤ 0.15dB	≤ 0.15dB	≤ 0.25dB	≤ 0.25dB
Insertion loss (IL) typical value	≤ 0.07dB	≤ 0.07dB	≤ 0.12dB	≤ 0.12dB
Return loss (RL) 500x mating's	≥ 80dB	≥ 50dB	≥ 65dB	≥ 45dB
Typical value UPC=first 10 mating's	≥ 90dB	≥ 55dB (UPC)	≥ 85dB	≥ 55dB (UPC)
Laser power, mated	≤ 2W	≤ 300mW	≤ 1W	≤ 300mW
IEC 61300-2-14, 500h, 23°C				

DEFINITION IL / RL @ R&M	GRADE C/1	GRADE C/2	GRADE Am/2	GRADE Bm/3
Insertion loss (IL) 97%	≤ 0.50dB	≤ 0.50dB	≤ 0.25dB (100%)	≤ 0.50dB (100%)
			≤ 0.15dB (95%)	≤ 0.25dB (95%)
Insertion loss (IL) typical value	≤ 0.25dB	≤ 0.25dB	≤ 0.10dB	≤ 0.15dB
Return loss (RL) 500x mating's	≥ 60dB	≥ 45dB	≥ 45dB	≥ 35dB
Typical value UPC=first 10 mating's	≥ 80dB	≥ 55dB (UPC)		
Laser power, mated	≤ 500mW	≤ 300mW		
IEC 61300-2-14, 500h, 23°C				
Grade 1: 55dB unmated in all combinations				

Grade-A* and Grade Am/Bm are not fully released by IEC 61753-1.



Datasheet

LC-QR Uniboot

MECHANICAL PROPERTIES

CRITERIA	DATE / VALUE		STANDARD
Mating durability	500x minimum		IEC 61300-2-2
Cable retention	50N, 120s 100N, 120s	Cable diameter ≤ 2.0mm Cable diameter > 2.0mm	IEC 61300-2-4
Vibration	10-55Hz, 1 oktave 3 axis of 15 cycles amplitude 0.75 m	e / min. s, 0.5h / axis ım	IEC 61300-2-1
Repeated bending	200 cycles -90° / Load = 5N	0° / +90° / 0°	IEC 60794-1-E6
Torsion	15N; 25 cycles ± 180°		IEC 61300-2-5
Drop	1.5 m, 5 times		IEC 61300-2-12
Static side load	1N, 1h		IEC 61300-2-42

CLIMATIC CLASS

CRITERIA	DATE / VALUE	STANDARD
Cold	-10°C, 96h	IEC 61300-2-17
Dry heat	+70°C, 96h	IEC 61300-2-18
Change of temperature	-10°C to +60°C, 6 cycles (< Delta 0.2dB)	IEC 61300-2-22
	-25°C to +70°C, 12 cycles (reversible)	

LONG TERM ENDURANCE

CRITERIA	DATE / VALUE	STANDARD
Heat resistance	+70°C, 1000h	IEC 61300-2-18
Damp heat	+40°C at 93%, 96h	IEC 61300-2-19



Datasheet

LC-QR Uniboot

DIMENSIONS CONNECTOR LC - QR UNIBOOT









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