



F.O. cable 50/125 OM3 Ind./Out. LSZH-Dielectric Armour Optical Fiber



Fiber details	
Type	10G-150
Core diameter	50,0±2,5µm
Cladding diameter	124,8 ±1.0µm
Core non-circularity	≤5,0%
Cladding non-circularity	≤1,0%
Core-Cladding concentricity error	≤1,0µm
Coating diameter	245 ±7µm
Coating non-circularity	≤6,0%
Cladding-Coating concentricity error	≤12µm
OFL Bandwidth	850nm ≥700 MHz/km – 1300nm ≥500 MHz/km
Effective Modal Bandwidth	850nm ≥950 MHz/km – 1300nm ≥500 MHz/km
Attenuation coefficient (max.)	850nm ≤3,00 dB/km – 1300nm ≤1,00 dB/km

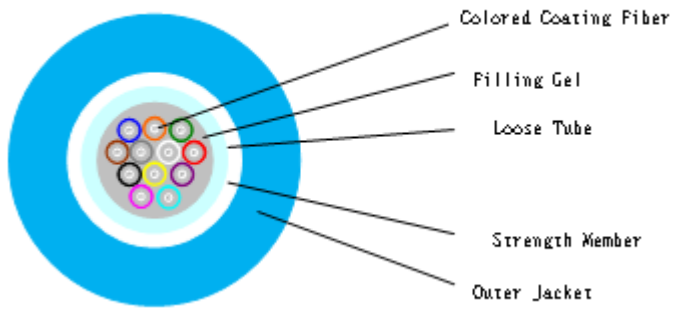
Construction Characteristics	
Tubes	1
Diameter of tube	2,10mm ±0.1mm
Loose tube material	PBT
Loose tube color	Natural
Colored Coating Fiber	dimension: 250µm±15µm color: blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua green
Strength member	Glass Yarn
Sheath wall thickness	1,3mm ±0.1mm
Diameter	5,50mm ±0.2mm

Environmental and mechanical Performances	
Long term tension	300N
Short term tension	600N
Long term crush	300N/10cm
Short term crush	1000N/10cm
Min. bending radius (static lay)	10 x Diam. ex.
Min. bending radius (dynamic lay)	20 x Diam. ex.
Operating temperature/storage	-30°C ~ +60°C
Laying temperature/installation	-20°C ~ +50°C

Outer sheath	
Type	LSZH AQUA BLUE
Printing	ECS – Number FO OM3 50/125 OUTDOOR-INDOOR LSZH Eca ORDER NR. METER MARKING

Tests	Rules	Value	Approval parameters
Traction	IEC 60794-1-21-E1	600N	$\Delta\alpha \leq 0,25$ dB/km – Fiber draw ratio $\leq 0,45\%$
Crush	IEC 60794-1-21-E3	1000N/100mm (maximum 15 minutes)	$\Delta\alpha \leq 0,05$ dB – No damage
Crash	IEC 60794-1-21-E4	2.5 Nm, 3 impacts, R= 300mm	$\Delta\alpha \leq 0,05$ dB
Torque	IEC 60794-1-21-E7	100N, $\pm 180^\circ$ 10 cycles	$\Delta\alpha \leq 0,05$ dB – No damage
Repeated bending	IEC 60794-1-21-E11	20xD., 1Kg, 3 cycles	$\Delta\alpha \leq 0,05$ dB – No damage
Bending radius	IEC 60794-1-21-E6	R=20xD., 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB – No damage
Temperature cycling	IEC 60794-1-22-F1	-20°C ~ +70°C	Maximum value 0,05 dB/km

Smart code	Item Number	Nr Fiber	Diameter mm.	Weight Kg/Km	Min.bending radius
FOM3-12	FOHFFD12EIM3BLB40	12	5,5mm	38.00	10xExt.Diam.



} The details expressed above have to be considered as an indication.

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