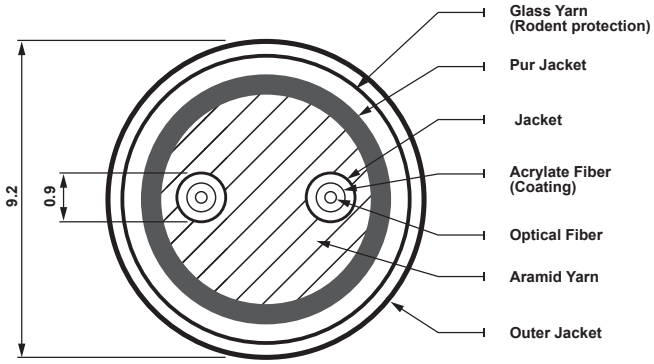
Cable Datasheet
opticalCON® DUO ADVANCED X-TREME



Technical Data Cables

Number of Fibers	2		2	
Fiber Type	Multimode		Single-mode	
Fiber standard	OM3		G.657A2/B2	
Core Diameter	50 µm		9 µm	
Cladding Diameter	125 µm		125 µm	
Primary Coating Diameter	242 µm		250 µm	
Secondary Buffer Diameter	900 µm		900 µm	
Numerical Aperture	0.20		-	
Proof Test Level	200 kpsi		100 kpsi	
Wavelength	850 nm	1300 nm	1310 nm	1550 nm
Gigabit Ethernet Distance	1000 m	550 m	-	-
Attenuation	3 dB/km	1 dB/km	0.38 dB/km	0.28 dB/km
Bandwidth	1500 MHz-km	500 MHz-km	-	-
Nominal Dispersion Slope	-	-	0.092 ps/(nm²-km)	
Refraction index	1.483	1.479	1.467	1.47
Cable Surface	Black Matt		Black Matt	
Jacket material	Polyurethane		Polyurethane	
Cable Weight	82 kg/km		82 kg/km	
Cable Diameter	9.2 mm		9.2 mm	
Installation (static):				
Max. Tensile Load	2200 N, short term		2200 N, short term	
Min. Bend Radius	92 mm		92 mm	
Operation (dynamic):				
Max. Tensile Load	2200 N, short term		2200 N, short term	
Min. Bend Radius	138 mm		138 mm	
Impact Resistance	20 (EIA/TIA-455-25B)		20 (EIA/TIA-455-25B)	
Crush Resistance	500 N/cm (EIA/TIA-455-41A)		500 N/cm (EIA/TIA-455-41A)	
Number of Conductors	-		-	
Nominal Core OD	-		-	
Conductor resistance	-		-	
Operation Temperature	-40°C to +70°C		-40°C to +70°C	
Storage Temperature	-55°C to +85°C		-55°C to +85°C	
Bend optimized	Yes		Yes	
Laser optimized	Yes		No	

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