SCP Structured Cable Products®
Quality Installations Deserve Quality Products

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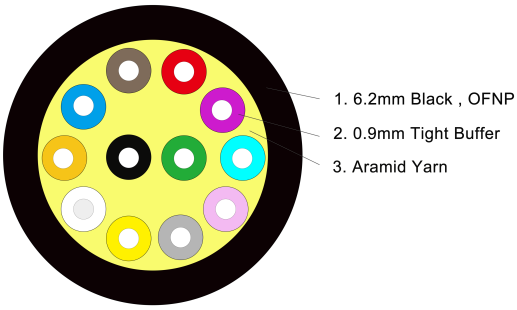
SCP PART#: EF-OS2P-12DIST-BK1000

Description:

12 Strand OS2 Plenum SCP-EasyFiber® w/Corning® SMF-28® Ultra -
12 Strand Tight Buffered Distribution, Single Mode OS2 9/125, UL Plenum OFNP,
Indoor/Outdoor UV Sun Res Black Jacket, 1000ft/305m Reel In Box

Regulatory:

UL Plenum OFNP
EU RoHS 2011/65 EU Compliant
ITU-T G.657.A1 -10mm Macrobend Radius SMF



Cable Technical Parameters (Meet IEC 60794-2):

Fiber	Count	12
	Type	Corning SMF-28®Ultra
Cable	OD(mm)	6.2±0.5
	Wall Thickness	0.9±0.1
	Material	UL PVC - OFNP
	Color	Black – RAL9004
Buffer	OD(um)	900±50 um
	Material	PVC-OFNR
	Color	Blue/Orange/Green/Brown/White/yellow Gray/Red/Black/Purple/Pink/Aqua
Nominal weight(kg/km)		44
Max.tensile Strength(N)	Short-term	400
	Long-term	130
Min.Bending Radius(mm)	Dynamic	20D
	Static	10D
Max.Crush Resistance(N/100mm)	Short-term	300N/100mm
	Long-term	1000N/100mm
Cable attenuation	1310nm（SMF）	≤0.4 dB/km
	1550nm（SMF）	≤0.3 dB/km
Strength Members		Aramid yarn
Environmental Protection		RoHS COMPLIANT

Temperature range	Storage or transportation	-20~70℃
	Operation	-20~60℃
	Installation	-20~60℃

Optical Characteristics:

Corning SMF-28®Ultra

Characteristics	Conditions	Specified Values	Units
Geometrical characteristics			
Cladding diameter		125.0±1.0	um
Cladding non-circularity		≤0.7	%
Coating diameter		242±5	um
Coating/cladding concentricity error		<12	um
Core/cladding concentricity error		≤0.5	um
Optical characteristics			
Attenuation	1310nm	≤0.32	dB/km
	1383nm	≤0.32	dB/km
	1490nm	≤0.21	dB/km
	1550nm	≤0.18	dB/km
	1625nm	≤0.20	dB/km
Attenuation vs. Wavelength max. A difference	1285~1330nm	≤0.03	dB/km
	1525~1575nm	≤0.02	dB/km
Zero dispersion wavelength		1304~1324	nm
Zero dispersion slope		≤0.092	ps/(nm2*km)
Polarization mode dispersion			
PMD maximum individual fibre		≤0.1	ps/km1/2
PMD design link value		≤0.04	ps/km1/2
Cable cut off wavelength		≤1260	nm
Mode field diameter	1310nm	8.8~9.6	um
	1550nm	9.9~10.9	um
Group index of refraction	1310nm	1.4691	
	1550nm	1.4696	
Environmental characteristics	1310nm、1550nm&1625nm		
Temperature cycling	-60℃ to +85℃	≤0.05	dB/km
Temperature-humidity cycling	-10℃ to +85℃, 4% to 98% RH	≤0.05	dB/km
Water immersion	23℃, 30 days	≤0.05	dB/km
Dry heat	85℃, 30 days	≤0.05	dB/km
Damp heat	85℃, 85%RH, 30 days	≤0.05	dB/km
Mechanical specification			
Proof test		≥100	Kpsi

Macro bending induced loss			
1Turns @10mm Radius	1550nm	≤0.5	dB
1Turns @10mm Radius	1625nm	≤1.5	dB
10Turns @15mm Radius	1550nm	≤0.05	dB
10Turns @15mm Radius	1625nm	≤0.30	dB
100Turns @25mm Radius	1310&1550&1625 nm	≤0.01	dB
Dynamic stress corrosion susceptibility parameter		20	

Cable Sheath Marking:

STRUCTURED CABLE PRODUCTS --- EF-OS2P-12DIST --- 12 Strand OS2 Plenum Single Mode Ultra Bendable SCP-EASYFIBER™ w/ Corning® SMF-28® Ultra UL E329066 OS2 9/125 Distribution OFNP Indoor/Outdoor UV Sun Res RoHS ****FT MMYY

Label:

EF-OS2P-12DIST-BK1000