

**SCP PART#: EF-OS2P-6DIST-BK**

**Description:**

6 Strand OS2 Plenum Bend Insensitive SCP-EasyFiber™  
 w/Corning® SMF-28® Ultra - 6 Strand Tight Buffered Distribution,  
 Single Mode OS2 9/125, UL Plenum OFNP,  
 Indoor/Outdoor UV Sun Res Black Jacket, 2000ft/610m Reel in Box

**SCP-EasyFiber™**

**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	6
	Type	Corning SMF-28®Ultra
Cable	OD(mm)	5.1±0.5
	Wall Thickness	0.9±0.1
	Material	UL PVC - OFNP
	Color	Black – Pantone RAL9004
Buffer	OD(mm)	900±50 um
	Material	PVC-OFNR
	Color	Red/Orange/Green/Blue/White/Yellow
Nominal weight(kg/km)		32
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°C
	Operation	-20~60°C
	Installation	-20~60°C

**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/(nm <sup>2</sup> *km)
Polarization mode dispersion			
PMD maximum individual fibre		≤0.1	ps/km <sup>1/2</sup>
PMD design link value		≤0.04	ps/km <sup>1/2</sup>
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°C to +85°C	≤0.05	dB/km
Temperature-humidity cycling	-10°C to +85°C, 4% to 98% RH	≤0.05	dB/km
Water immersion	23°C, 30 days	≤0.05	dB/km
Dry heat	85°C, 30 days	≤0.05	dB/km
Damp heat	85°C, 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 Jacket Marking :**

STRUCTURED CABLE PRODUCTS --- EF-OS2P-6DIST-BK ---SCP-EASYFIBER™ UL E518532  
OS2 9/125 DISTRIBUTION 6 STRAND OFNP CORNING® SMF-28® ULTRA \*\*\*\*FT MMY