

Optical Characteristics:Corning SMF-28®Ultra

Characteristics	Conditions	Specified Values	Units
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 ² *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°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, 30days	≤0.05	dB/km
Dry heat	85°C, 30days5	≤0.05	dB/km
Damp heat	85°C, 85% RH,30days	≤0.05	dB/km
Mechanical specification			
Proof test		≥100	Kpsi
Macro bending induced loss			
1 Turns@10mm Radius	1550nm	≤0.5	dB
	1625nm	≤1.5	dB
10 Turns@15mm Radius	1550nm	≤0.05	dB
	1625nm	≤0.30	dB
100 Turns@15mm Radius	1310&1550&1625nm	≤0.01	dB
Dynamic stress corrosion susceptibility parameter		20	

Cable Jacket Marking:

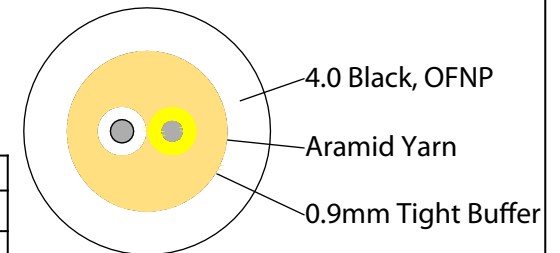
STRUCTURED CABLE PRODUCTS ---
 EF-OS2P-2DIST-BK --- SCP-EASYFIBER™ UL Exxxxxx
 OS2 9/125 DISTRIBUTION 2 STRAND OFNP
 CORNING®SMF-28®ULTRA ****FT MMY

Cable Technical Parameters(Meet IEC 60794-2):

Fiber	Count	2
	Type	Corning SMF-28®Ultra
Cable	OD(mm)	4.0±0.5
	Wall Thickness	0.7±0.1
	Material	UL PVC-OFNP
	Color	Black- Pantone RAL9004
Buffer	OD	900±50 um
	Material	PVC-OFNR
	Color	Yellow/White
Nominal Weight(kg/km)		18
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)	≤0.4dB/km
	1550nm(SMF)	≤0.3dB/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



Rev.	Description	Date
A		12-2021



Description:

2 Strand OS2 Plenum Bend Insensitive SCP-EasyFiber™ w/Corning®SMF-28®Ultra - 2 Strand Tight Buffered Distribution, Single Mode OS2 9/125, UL Plenum OFNP, Indoor/Outdoor UV Sun Res Black Jacket, 1000ft/610m Reel in Box

Regulatory:

UL Riser OFNP
 EU RoHS 2011/65 EU Compliant

Characteristics	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

No.	Specifications
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Item Number:	11F3-B002NH
Title:	2 Fiber Indoor/Outdoor Fiber Optic Cable, w/Corning, Singlemode 9/125, OS2, Plenum, OFNP, Black, 1000 foot Reel in Box
Drawn by:	JL
Approved by:	MAC
ID:	123

