

Product Specifications

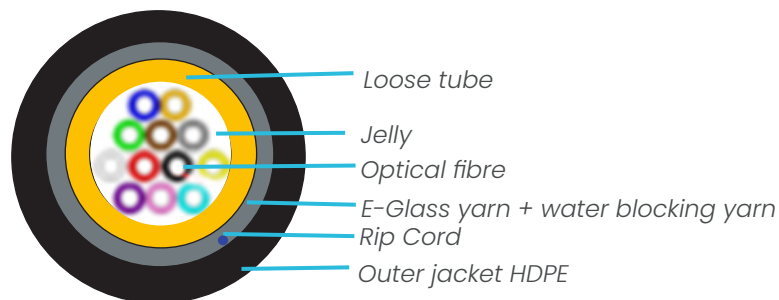
Product Family	Zybrspeed
Category	Fiber
Product	Fiber optic outdoor cable 4-12F
Item no.	ZSBC180 Series
Edition	1.0



Applications & Features

- ✓ Low insertion loss
- ✓ Compact design
- ✓ Direct burial, duct installation

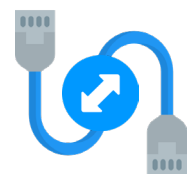
Overview & cross section



Mechanical and environmental properties

Tension (short term)
 Crush (long term)
 Crush (short term)
 Min. Bend radius (installation)
 Min. Bend radius (operation)
 Installation temperature
 Operation temperature
 Storage temperature

1200 N
 200 N/10cm
 1000 N/10cm
 20D mm
 10D mm
 -40~60°C
 -40~70°C
 -40~70°C



Fiber Parameters

G6527

Mode field diameter
 1310nm
 1550nm
 Cladding diameter
 Cladding non-circularity
 Core cladding concentricity error
 Zero dispersion wavelength
 Zero dispersion slope
 Max PMD link value
 Cable cutoff wavelength
 Attenuation
 1310nm
 1460nm
 1550nm
 1625nm

8.4 ~ 9.2 μm
 9.3 ~ 10.3 μm
 125.0 ± 0.7 μm
 <0.7 %
 <0.5 μm
 1300~1324 nm
 <0.092 ps/nm²*km
 0.2 ps/√km
 <1260 nm
 <0.35 dB/km
 <0.35 dB/km
 <0.21 dB/km
 <0.23 dB/km



Fiber Parameters

OM3

Core diameter	50.0 ± 2.5	μm
Cladding diameter	124.8 ± 1.0	μm
Core non-circularity	<5.0	%
Cladding non-circularity	<1.0	%
Core cladding concentricity error	<1.0	μm
Coating diameter	245 ± 7	μm
Coating non-circularity	<6.0	%
Cladding-Coating concentricity	<12.0	μm
OFL bandwidth @850nm	>1500	Mhz/km
Effective modal bandwidth @850nm	>2000	Mhz/km
Attenuation coefficient		
850nm	<2.30	dB/km
1300nm	<0.60	dB/km

OM4

Core diameter	50.0 ± 2.5	μm
Cladding diameter	125.0 ± 0.7	μm
Core non-circularity	<5.0	%
Cladding non-circularity	<1.0	%
Core cladding concentricity error	<0.6	μm
Coating diameter	245 ± 7	μm
Coating non-circularity	<6.0	%
Cladding-Coating concentricity	<10.0	μm
OFL bandwidth		
850nm	>3500	Mhz/km
1300nm	>500	Mhz/km
Effective modal bandwidth		
850nm	>4700	Mhz/km
1300nm	>500	Mhz/km
Attenuation coefficient		
850nm	<2.40	dB/km
1300nm	<0.60	dB/km



Cable Parameters

Fiber types	G657/OM3/OM4
Fiber count	4-12
Loose tube	
Dimension	2.0 ± 0.2 mm
Material	PBT
Strength member material	E-Glass + water blocking yarn
Outer jacket	
Dimension (4~12 fibers)	6.0 ± 0.5 mm
Material	HDPE
Color	Black