

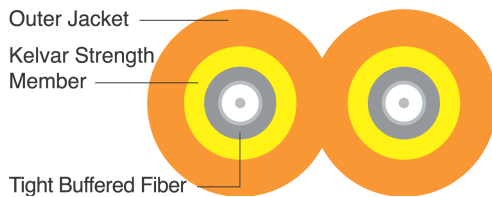
DUPLEX CABLE

Duplex cable consisting of two simplex tight buffer cables, is ideal for two-way transmission patchcord. They can also be bundled as the fan-out or breakout cable for indoor wiring. Corning duplex cable are available upon request, please contact us for more details.

Features

- 900 μ m tight buffer as central member with high modular aramid yarns
- Flexible, easily stripped
- Small bending radius, excellent tension and environmental performance
- PVC or LSZH sheath are available

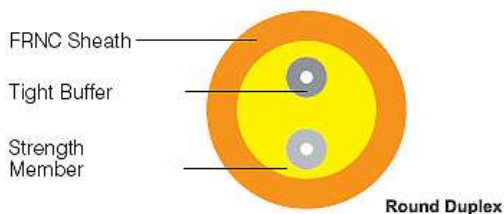
Cable Structure (Zipcord duplex)



Cable mechanical data (Zipcord duplex)

Fiber Count	Cable Diameter (mm)		Cable Weight (kg/km)	Min. Bending Radius (mm)		Max. Tension (N)	
	D	H		Dynamic	Static	Short Term	Long Term
2	2.0	4.0	6.90	30	20	300	160
	3.0	6.0	14.02	45	30		

Cable Structure (Round duplex)



Cable mechanical data (Round duplex)

Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Cable Diameter (mm)	Min. Bending Radius (mm)		Max. Tension (N)	
				Dynamic	Static	Short Term	Long Term
2	3.0	7.6	3.0	60	30	600	200

Optical Characteristics for Singlemode 9/125um

Characteristics	Conditions	Specific Values		Units
Optical characteristics				
Attenuation	1310nm	≤0.36		[dB/km]
	1550nm	≤0.22		[dB/km]
Dispersion coefficient	1285~1340nm	-3.0 to 3.0		[ps/(nm · km)]
	1550nm	≤18		[ps/(nm · km)]
Zero dispersion wavelength		1302 to 1322		[nm]
Zero dispersion slope		≤0.091		[ps/(nm ² · km)]
Polarization Mode Dispersion		≤0.2		[ps/√km]
PMD Maximum Individual Fiber		≤0.08		[ps/√km]
PMD Link Design Value		1180 to 1330		[nm]
Fiber cutoff wavelength λ _c		≤1260		[nm]
Fiber cutoff wavelength λ _{cc}		9.2±0.4		[um]
Mode field diameter (MFD)	1310nm	10.4±0.8		[um]
	1550nm			
Group index of refraction (Typical)	1310nm	1.466		
	1550nm	1.467		
Geometrical characteristics				
Cladding diameter		125.0±1.0		[um]
Cladding non-circularity		≤1.0		%
Coating diameter		242±7		[um]
Coating/ cladding concentricity error		≤12.0		[um]
Coating non-circularity		≤6.0		%
Core/ cladding concentricity error		≤0.6		[um]
Curl (radius)		≥4		[m]
Environmental Characteristics				
	1310nm, 1550nm			
Temperature dependence induced attenuation	-60°C to +85 °C	≤0.05		[dB/km]
Temperature-humidity cycling induced attenuation	-10°C to +85 °C, 90% R.H	≤0.05		[dB/km]
Damp heat dependence induced attenuation	85 °C, 85% R.H., 30days	≤0.05		[dB/km]
Watersoak dependence induced attenuation	20 °C for 30days	≤0.05		[dB/km]

Optical Characteristics for Multimode 50/125um

Characteristics	Conditions	Specific Values			Units
			OM3	OM4	
Optical characteristics					
Attenuation	850nm	≤3.0	≤3.2	≤3.2	[dB/km]
	1300nm	≤1.0	≤1.0	≤1.0	[dB/km]
Overfilled Modal Bandwidth	850nm	≥500	≥1500	≥3500	[MHz · km]
	1300nm	≥500	≥500	≥500	[MHz · km]
Numerical Aperture (NA)		0.200±0.015			
Group index of refraction (Typical)	850nm	1.482			
	1300nm	1.477			
Geometrical characteristics					
Core diameter		50±2.5			[um]
Cladding diameter		125.0±1.0			[um]
Cladding non-circularity		≤1.0			%
Coating diameter		242±7			[um]
Coating/ cladding concentricity error		≤12.0			[um]
Coating non-circularity		≤6.0			%
Core/ cladding concentricity error		≤1.5			[um]
Environmental Characteristics					
	850nm, 1300nm				
Temperature dependence induced attenuation	-60°C to +85 °C	≤0.10			[dB/km]
Temperature-humidity cycling induced attenuation	-10°C to +85 °C, 90% R.H	≤0.20			[dB/km]
Damp heat dependence induced attenuation	85 °C, 85% R.H., 30days	≤0.20			[dB/km]
Watersoak dependence induced attenuation	20 °C for 30days	≤0.20			[dB/km]

Optical Characteristics for Multimode 62.5/125um

Characteristics	Conditions	Specific Values	Units
Optical characteristics			
Attenuation	850nm	≤2.7	[dB/km]
	1300nm	≤0.6	[dB/km]
Overfilled Modal Bandwidth	850nm	≥200	[MHz · km]
	1300nm	≥600	[MHz · km]
Numerical Aperture (NA)		0.275±0.015	
Group index of refraction (Typical)	850nm	1.496	
	1300nm	1.491	
Geometrical characteristics			
Core diameter		62.5±2.5	[um]
Cladding diameter		125.0±1.0	[um]
Cladding non-circularity		≤1.0	%
Coating diameter		242±7	[um]
Coating/ cladding concentricity error		≤12.0	[um]
Coating non-circularity		≤6.0	%
Core/ cladding concentricity error		≤1.5	[um]
Environmental Characteristics			
Temperature dependence induced attenuation	850nm, 1300nm		
	-60°C to +85 °C	≤0.10	[dB/km]
Temperature-humidity cycling induced attenuation	-10°C to +85 °C, 90% R.H	≤0.20	[dB/km]
Damp heat dependence induced attenuation	85°C, 85% R.H., 30days	≤0.20	[dB/km]
Watersoak dependence induced attenuation	20°C for 30days	≤0.20	[dB/km]

Ordering Information (Zipcord duplex)

GZD

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Fiber Type 900: 9/125um SM 625: 62.5/125um MM 500: 50/125um MM OM3: 50/125um OM3 MM OM4: 50/125um OM4 MM	Cable Diameter 20: 2.0mm 30: 3.0mm	Sheath K: Non-LSZH L: LSZH
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Ordering Information (Round duplex)

GRD

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Fiber Type 900: 9/125um SM 625: 62.5/125um MM 500: 50/125um MM OM3: 50/125um OM3 MM OM4: 50/125um OM4 MM	Cable Diameter 20: 2.0mm 30: 3.0mm	Sheath K: Non-LSZH L: LSZH
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