

Outer Sheath: black, Ink print, marking in 1 meter intervals as follows (for example) :

MFOU10200 / H 12 FO G.652D M 12 <year > <week> <BatchNumber> <meter>
MFOU10203 / H 36 FO G.652D M 12 <year > <week> <BatchNumber> <meter>
MFOU10206 / H 72 FO G.652D M 12 <year > <week> <BatchNumber> <meter>
MFOU10208 / H 96 FO G.652D M 12 <year > <week> <BatchNumber> <meter>
MFOU10211 / H 144 FO G.652D M 12 <year > <week> <BatchNumber> <meter>
MFOU10213 / H 288 FO G.652D M 12 <year > <week> <BatchNumber> <meter>
MFOU10215 / H 432 FO G.652D M 12 <year > <week> <BatchNumber> <meter>

Optical Fiber

Standard	ITU-T G.652D		
Optical	Fibre attenuation (dB/km)	Before cable ≤0.34 @1310nm ≤0.20 @1550nm	After Cable ≤0.36 @1310nm ≤0.23 @1550nm
	Zero Dispersion Wavelength	1300~1324 nm	
	Zero Dispersion Slope	≤0.092 ps/nm ² ·km	
	Cable Cutoff Wavelength (λ _{cc})	*≤1260 nm	
	PMD Max. Value	≤0.12 ps/√km	
	PMD Average	≤0.1 ps/√km	
	PMD Link design value (M=20 cables, Q=0.01%)	≤0.06ps/√km	
	Macro bending Loss (100 turns; Φ50 mm) @1550 nm	≤ 0.05 dB	
	(100 turns; Φ50 mm) @1625 nm	≤ 0.10 dB	
	Mode Field Diameter	9.2±0.4 μm @1310 nm 10.2±0.4 μm @1550 nm	
Geometric	Cladding Diameter	125±1.0 μm	
	Cladding non circularity	≤ 1.0%	
	Core/clad concentricity error	≤ 0.6μm	
Mechanical	Proof stress	≥ 0.69GPa	

*Remark: Cable cut-off wavelength according to IEC 60793-1-44-2011 Annex A method A

Test Methods

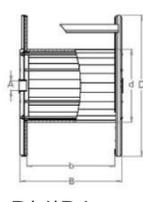
Test	Conditions	Acceptance criteria
Tension Loading IEC 60794-1-2 E1	Tensile strength: See point 3 Sample length: ≥100 m, 1 min	- Δα reversible.
Crush IEC 60794-1-2 E3	Crush: 2000N/10cm Test: 1 min, number of tests: 5	- Δα ≤ 0.1dB
Impact IEC 60794-1-2 E4	5Nm, R = 300 mm, number of places/tests: 3	- Δα reversible
Torsion IEC 60794-1-2 E7	Sample length: 1 m, ± 180°, 5 cycles	- Δα ≤ 0.1dB
Bend IEC 60794-1-2 E11	R=10D, 4 bends, 3 cycles	- Δα reversible.
Temperature cycling IEC 60794-1-2 F1	-30°C → +60°C 12h each step, 2 cycles	- Δα ≤ 0.10dB/km
Water penetration IEC 60794-1-2 F5	Sample: 3 m, water column height: 1m Test duration: 24 h	- No water leakage

All optical measurements at 1550 nm

Fiber Test List

Test Item	Test Standard	Acceptance Criteria	
Attenuation coefficient	IEC 60793-1-40 Measurement methods and test procedures- Attenuation	Before cable ≤0.34 dB/km @1310nm ≤0.20 dB/km @1550nm	After cable ≤0.36 dB/km @1310nm ≤0.23 dB/km @1550nm
Chromatic Dispersion	IEC 60793-1-42 Measurement Methods And Test Procedures - Chromatic Dispersion	Zero Dispersion Wavelength: 1300~1324 nm Zero Dispersion Slope: ≤0.092 ps/nm ² ·km	
Cable Cutoff Wavelength	IEC 60793-1-44 Measurement methods and test procedures - Cut-off wavelength Annex A method A	≤1260 nm	
PMD	IEC 60793-1-48 Measurement methods and test procedures - Polarization mode dispersion	Max PMD≤0.12 ps/√km PMD averages≤0.1 ps/√km	
PMD link design value	IEC 60794-3 Outdoor cables-Sectional specification	PMDQ≤0.06 ps/√km M=20Cables,Q=0.01%	
Macro bending Loss	IEC 60793-1-47 Measurement methods and test procedures - Macro bending Loss	(100 turns; Φ50 mm) @1550 nm≤ 0.05 dB (100 turns; Φ50 mm) @1625 nm≤ 0.10 dB	
Mode field diameter	IEC 60793-1-45 Measurement methods and test procedures - Mode field diameter	9.2±0.4μm@1310 nm 10.2±0.4μm@1550 nm	
Geometric parameters	IEC 60793-1-20 Measurement methods and test procedures - Fibre geometry	Cladding Diameter: 125±1μm Cladding non circularity: ≤1.0% Core/clad concentricity error: ≤0.6μm	
Proof test	IEC 60793-1-30 Measurement methods and test procedures - Fibre proof test	≥0.69GPa	

Logistics

Cable type	Length Tolerance	4000m	 <p>D*d*B in cm</p>
OFC-12G.652D-DiC-S1 (M12)	Drum Type Dimensions Weight	100*60*75 179kg	
OFC-24G.652D-DiC-S1 (M12)		110*60*75 220kg	
OFC-36G.652D-DiC-S1 (M12)		Wood 105*60*105 272 kg	
OFC-48G.652D-DiC-S1 (M12)		115*60*75 273 kg	
OFC-60G.652D-DiC-S1 (M12)		Wood 110*60*105 314 kg	
OFC-72G.652D-DiC-S1 (M12)		Wood 125*60*75 364 kg	
OFC-96G.652D-DiC-S1 (M12)		Wood 135*60*75 440 kg	
OFC-144G.652D-DiC-S1 (M12)		Wood 145*70*75 469 kg	
OFC-288G.652D-DiC-S1 (M12)		Wood 175*80*75 735 kg	
OFC-432G.652D-DiC-S1 (M12)		Wood 175*100*105 969 kg	