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AIR BLOWN MICRO CABLE

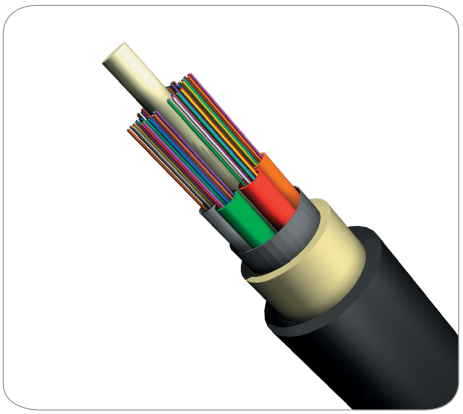
DESCRIPTION

This product has good mechanical performance and the environmental performance, weight light, diameter is small, optical fiber capacity is big, sheath friction coefficient is low, the air blows the speed fast, the distance is long, the construction efficiency is high, the product cost is low.

This specification specifies the product classification, model, structure, technical parameters and test methods of optical and optical cables for communications, as well as the packaging and storage requirements.

FEATURES AND BENEFITS

- ✓ High Density Polyethylene (HDPE) outer jacket
- ✓ 12 to 432 cores available
- ✓ Small light weight design
- ✓ Recommended internal duct size - 10mm



Indoor Outdoor FTTx Halogen free

STANDARDS

GB/T 9771.3
GB/T 9771.7
ITU-T G.652
GB/T 7424.2
IEC 60794-1-21
IEC 60794-1-22
IEC 60794-5-10
GB/T 15065

COLOUR CODING (AS PER TIA-598-C)

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MICROLINK networks

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FIBER SPECIFICATIONS

FEATURES	TESTING STANDERDS	OS2
Core non-circularity	≤ 6%	ITU-T G.652
Cladding diameter	125.0±0.7μm	
Core/cladding concentricity error	≤ 0.6μm	
Cladding non-circularity	≤ 1.0%	
Coating diameter	245±10μm	
Coating/cladding concentricity error	≤ 12μm	
Attenuation coefficient	1310nm≤0.35dB/km	
	1550nm≤0.21dB/km	
Zero dispersion slope	≤ 0.092ps/(nm2·km)	
Zero dispersion wavelength	1300~1324nm	
Polarization mode dispersion	≤ 0.20 ps/√km	ITU-T G.652
Mode field diameter	1310nm：9.0±0.4μm	
Cut-off wavelength	1170~1330nm	
Chromatic dispersion	1288~1339nm≤3.4ps(nm·km)	
	1550nm≤18 ps/(nm·km)	
	1625nm≤22 ps/(nm·km)	

PERFORMANCE & TEST METHODS

TORSION/TWIST TEST	
Test standard	IEC 60794-1-21-E7
Sample length	1m
Tension loading	40N
Twist times	5
Twist angle	±180°
Test results	Optical fiber has no significant additional attenuation,no visible crack in the sheath

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CRUSH TEST	
Test standard	IEC 60794-1-21-E3A
Crush Loading	500N
Sample length	100mm
Duration	1min
Test results	Loss≤0.1dB @1550 nm
	After removal of pressure, there is no residual residual attenuation.

IMPACT TEST	
Test standard	IEC 60794-1-21-E4
Impact energy	1J
Points of impact	1
Impact location	3（The distance at each point is not less than 500mm）
Test results	Loss≤0.1dB @1550 nm
	No visible cracking sheath

TENSION LOADING TEST		
Test standard	IEC 60794-1-21-E1	
Sample length	≥50m	
Tension rate	100mm/min	
Duration	1min	
Tensile strength	Long Tension	0.15x1kmCable weight
	Short Tension	0.5x1km Cable weight
Test results	Long term tensile loss≤0.03dB @1550 nm	
	Short term tensile loss≤0.1dB @1550 nm	
	Long-term tensile fiber strain≤0.1%@1550 nm	
	Short-term tensile fiber strain≤0.3%@1550 nm	
	The fiber has no residual residual attenuation and strain after removal.， No visible cracking of sheath.	

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WATER PENETRATION TEST	
Test standard	IEC 60794-1-22-F1
Temperature range	-40~+60 °C
Cycle times	2
Sample length	≥2km
Duration	12h
Test results	Additional attenuation≤0.15dB/km @1550 nm

WATER SEEPAGE TEST	
Test standard	IEC 60794-1-22-F5
Water height	1m
Sample length	1m
Duration	1hr
Test results	No fiber break and no sheath danage

ORDER INFORMATION

PART NUMBER	FIBER COUNT	TUBE NO x FIBER PER TUBE	Filler Count	Tube Diameter MM	Sheath Thickness MM	Outer Diameter MM	Weight MM	Micro tube Diameter MM
MK-ABM100-12C	12	1x12	5	1.55	0.45	5.60	23	10.0/8.0
MK-ABM100-24C	24	2x12	4	1.55	0.45	5.60	23	10.0/8.0
MK-ABM100-48C	48	4x12	2	1.55	0.45	5.60	23	10.0/8.0
MK-ABM100-96C	96	8x12	0	1.55	0.50	6.60	34	10.0/8.0
MK-ABM100-144C	144	12x12	0	1.55	0.50	8.60	60	14.0/11.5

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