

GYTC8A Aerial Fig8 Fiber Optic Cable, Single-Mode G652D

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Variants

6 Core 24 Core 12 Core 48 Core

Details

GYTC8A B1.3 Fiber Optic Cable – Technical Specification

Fiber Structure

Core: 9 μ m high refractive index quartz glass

Cladding: 125 μ m low refractive index glass

Coating: 245 μ m protective resin layer

Fiber Technical Specifications

No	Item	Requirement	Standard
1	Core non-circularity	$\leq 6\%$	ITU-T G.652
2	Cladding diameter	$125.0 \pm 0.7 \mu\text{m}$	-
3	Core/Cladding concentricity	$\leq 0.6 \mu\text{m}$	-
4	Cladding non-circularity	$\leq 1.0\%$	-
5	Coating diameter	$245 \pm 10 \mu\text{m}$	-

6	Attenuation	1310nm ?0.35 dB/km, 1550nm ? 0.21 dB/km	-
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Cable Structure

Component	Details
Structure	Messenger wire, Loose tube, Jelly, Water blocking yarn, Aluminium tape, PE sheath
Fiber Core	12/24/48/74/99 Fibers
Loose Tube OD	1.7 mm
Strength Member	1.2 mm Steel Wire
Armoring	Corrugated Aluminium Tape
Outer Sheath	MDPE
Cable Size	9.7 × 17.4 mm
Weight	137 kg/km

Performance Tests

Test	Requirement	Standard
Tensile Test	5000N (Long), 10000N (Short)	IEC 60794-1-21-E1
Crush Test	1000 N/100mm	IEC 60794-1-21-E3
Bending Test	? 0.05 dB loss	IEC 60794
Temperature	-20°C to +70°C	IEC 60794-1-22-F1
Water Penetration	No leakage	IEC 60794-1-22-F7

