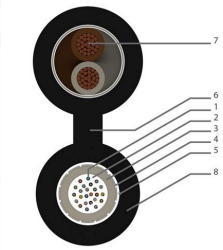


PART NO. 851006DBA

A-D(ZN)T2Y Composite (Stranded Copper) Fiber Optic Cable, 6F OM1

Detailed Specifications & Technical Data

CROSS SECTION



1 Optical fiber core
2 Waterproof thixotropic jelly
3 PBT Tube
4 Non-metallic strength member (Glass
5 Ripcord
6 Web
7 Power cable
8 UV resistant polyethylene (LLDPE) black

MARKING, PACKING & DELIVERY

Marking : CAMCOM – Date of Manufacture – Fiber Count and Type – Length Marking
Packing : Wooden drum with protection
Delivery Lengths : 2 km, 4 km ± %5 tolerance

CABLE CONSTRUCTION

Optical fiber core
Waterproof thixotropic jelly
PBT Tube
Non-metallic strength member (Glass yarn)
Ripcord
Web
Power cable
UV resistant polyethylene (LLDPE) black outer jacket

APPLICATION

Minimum Bending Radius – Operation : 20 x cable Ø
Minimum Bending Radius – Fixed : 10 x cable Ø
Temperature Range – Storage : -40°C to +70°C
Temperature Range – Installation : -30°C to +60°C
Temperature Range – Transport : -30°C to +60°C
Temperature Range – Operating : -20°C to +70°C

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension [2]	IEC 60794-1-2-E1	1.0 x W(N), min. 1500 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	0.5 x W(N), min. 900 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	1500 N / 100 mm, max. 15 min.	Δα ≤ 0.05 dB, No damage
Impact	IEC 60794-1-2-E4	10 Nm, 3 impacts, R= 300 mm	Δα ≤ 0.05 dB after the test
Torsion	IEC 60794-1-2-E7	1 m. 100N, +/- 180°, 10 cycles	Δα ≤ 0.05 dB, No damage
Repeated Bending	IEC 60794-1-2-E6	R=20x D, 100 N, 35 cycles	No damage
Bending Radius	IEC 60794-1-2-E11	R=20x D, 4 turns, 3 cycles	Δα ≤ 0.05 dB, No damage
Temperature Cycling	IEC 60794-1-2-F1	-20°C to +70°C	Δα ≤ 0.05 dB/km
Waterproofness	IEC 60794-1-2-F5B	Sample= 3 m, water column= 1 m	No water leakage in 24 hours.

CABLE TYPE DATA

CAMCOM Part No.	Core Type	Core Count	Tube Count	Tube Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
851006DBA	OM1	6	1	3.4	7.1	137

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Prepared By : Steve Smith

Disclamer :- Datasheet is subject to modification without prior notication

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