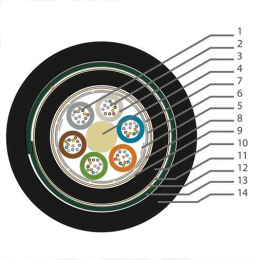


PART NO. 856144BAA

U-DQ(ZN)H(SR)H FE180 Fire Resistant Fiber Optic Cable, 144F SM G.652.D

Detailed Specifications & Technical Data

CROSS SECTION



1 Optical fiber core [1]
2 Waterproof thixotropic jelly
3 PBT Tube
4 Non-metallic central strength member
5 Water-swellable yarn
6 Core Wrapping (Water-swellable Tape)
7 Non-metallic strength member (Glass
8 Double layer of mica tape

APPLICATION

Minimum Bending Radius – Operation	: 20 x cable Ø
Minimum Bending Radius – Fixed	: 15 x cable Ø
Temperature Range – Storage	: 0°C to + 70°C
Temperature Range – Installation	: -30°C to +60°C
Temperature Range – Transport	: 0°C to + 70°C
Temperature Range – Operating	: -20°C to +70°C

CABLE CONSTRUCTION

Optical fiber core [1]
Waterproof thixotropic jelly
PBT Tube
Non-metallic central strength member (FRP)
Water-swellable yarn
Core Wrapping (Water-swellable Tape)
Non-metallic strength member (Glass yarn)
Double layer of mica tape
Ripcord
UV resistant halogen-free (LSOH) inner jacket
Mica tape
Ripcord
Corrugated steel tape
UV resistant halogen-free (LSOH) outer jacket

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

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

	Test Standard	Specified Value	Acceptance Criteria
Maximum Installation Tension [2]	IEC 60794-1-2-E1	1.5 x W(N), min. 4000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	0.5 x W(N), min. 1500 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	3000 N / 100 mm, maks. 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	Fiber Count	Tube Count	Filler Count	Tube Diameter (mm)	FRP Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
856144BAA	SM G.652.D	144	12	0	2.25	2.7	21	492

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Disclaimer :- Datasheet is subject to modification without prior notication

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