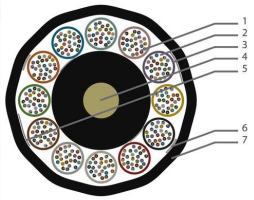


# PART NO. 846144BAB

A-DQ2Y 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 Ripcord
7 UV resistant polyethylene (HDPE) black

### CABLE CONSTRUCTION

Optical fiber core [1]
Waterproof thixotropic jelly
PBT Tube
Non-metallic central strength member (FRP)
Water-swellable yarn
Ripcord
UV resistant polyethylene (HDPE) black 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

### APPLICATION

Minimum Bending Radius – Operation : 20 x cable Ø
Minimum Bending Radius – Fixed : 15 x cable Ø
Temperature Range – Storage : -40°C to + 70°C
Temperature Range – Installation : -30°C to +60°C
Temperature Range – Transport : -40°C to + 70°C
Temperature Range – Operating : -30°C to +60°C

### MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

| | Test Standard | Specified Value | Acceptance Criteria |
|---|---|---|---|
| Maximum Installation Tension [2] | IEC 60794-1-2-E1 | Max. 650 N (96 FO, 144 FO Max. 1000 N) | Fiber strain ≤ 0.33% |
| Maximum Operation Tension | | Max. 200 N | Δα ≤ 0.05 dB, No fiber strain |
| Crush Strength | IEC 60794-1-2-E3 | 700 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) |
|---|---|---|---|---|---|---|---|---|
| 846144BAB | SM G.652.D | 144 | 6 | 0 | 2.3 | 2.5 | 8.3 | 50 |

**Camcom** is proud to be certified by

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Disclamer :- Datasheet is subject to modification without prior notication

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