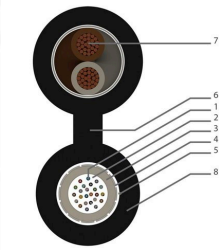



# PART NO. 851004DBA

A-D(ZN)T2Y Composite (Stranded Copper) Fiber Optic Cable, 4F 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) |
|---|---|---|---|---|---|---|
| 851004DBA | OM1 | 4 | 1 | 3.4 | 7.1 | 137 |

**Camcom** is proud to be certified by

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Disclamer :- Datasheet is subject to modification without prior notication

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