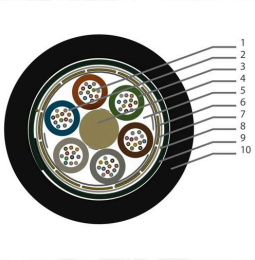


# PART NO. 871144HAA

A-DQ(ZN)(SR)2Y Fiber Optic Cable, 144F OM1

## 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 Ripcord

### 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 | : -40°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).
Ripcord
Corrugated steel tape
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 |

### MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

| | Test Standard | Specified Value | Acceptance Criteria |
|---|---|---|---|
| Maximum Installation Tension [2] | IEC 60794-1-2-E1 | 1.5 x W(N), min. 2700 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 | 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. | Construction | Conductor Size / Type | Item Size | Approx. Cable Ø (mm) | Approx. Weight (kg/km) |
|---|---|---|---|---|---|
| 871144HAA | 144 Fibers | OM1 | 144F OM1 | 17.6 | 241 |

**Camcom** is proud to be certified by

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Disclamer :- Datasheet is subject to modification without prior notication

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