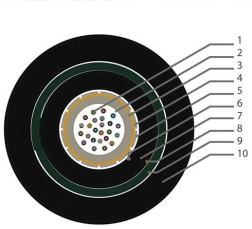


PART NO. 853020AAA

U-D(ZN)H(SR)H FE180 Fire Resistant Fiber Optic Cable, 20F OM3

Detailed Specifications & Technical Data

CROSS SECTION



1 Optical fiber core [1]
2 Waterproof thixotropic jelly
3 PBT Tube
4 Mica tape
5 Non-metallic strength member (Glass
6 Ripcord
7 UV resistant halogen-free (LSOH) inner
8 Ripcord

APPLICATION

Minimum Bending Radius – Operation	: 20 x cable Ø
Minimum Bending Radius – Fixed	: 10 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
Mica tape
Non-metallic strength member (Glass yarn)
Ripcord
UV resistant halogen-free (LSOH) inner jacket
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. 3000 N	Fiber strain ≤ 0.33%
Maximum Operation Tension	IEC 60794-1-2-E1	0.5 x W(N), min. 1000 N	Δα ≤ 0.05 dB, No fiber strain
Crush Strength	IEC 60794-1-2-E3	2500 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 Diameter (mm)	Cable Diameter (mm)	Cable Weight (kg/km)
853020AAA	OM3	20	4.2	13	220

Camcom is proud to be certified by

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Disclamer :- Datasheet is subject to modification without prior notication

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