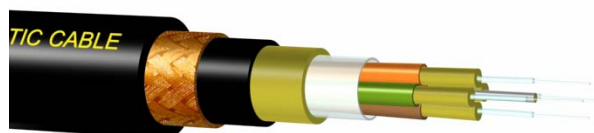


**Draka**

Draka Cableteq | Marine, Oil & Gas International

S670T ARMoured MARINE FIBER OPTIC CABLE

Fiber Optic Cable – Armoured tight buffer construction



Standards applied

Construction	IEC 60794-1,2,3
Performance requir.	IEEE 802.3z (Gigabit Ethernet)

Application

The Draka S670T series of Marine and Offshore fiber optic cables is designed especially for the harsh environments of commercial marine vessels, oil platforms and other similar applications. Draka S670T low smoke/zero halogen, flame retardant cables offer the versatility and ease of use of our other offshore cables in a construction suited for marine applications. They are compliant with the latest IEC requirements. S670T cables meet the requirements of IEC 60793-1 and IEC 60793-2 specifications, are encapsulated in all dielectric, tight buffered construction, individually reinforced with aramid yarns and jacketed (breakout style). The thermoplastic low smoke/ zero halogen jacketing system offers good resistance to chemicals, fluids, fungus and abrasion. This product is also available in a non-armoured version.

Fire Rating Standards

Halogen Free	IEC 60754-1,2
Low smoke	IEC 61034-1,2
Flame propagation	IEC 60332-1-25
Toxicity	NES 713
Fire retardant	IEC 60332-3-22 (Cat.A)
	IEEE 1202

Approvals

Det Norske Veritas (DNV)	Certificate E-7155
American Bureau of Shipping (ABS)	Certificate 01-NY6461-X
Lloyd's Registry of Shipping (LR)	Certificate 00/00157E1

Construction

Fibre	Possible fibre types; 62.5 µm MULTIMODE, 50 µm MULTIMODE, 200 µm MULTIMODE or 8.3 µm SIGNLEMODE.
Cladding	Multimode or singlemode fibres with an easily-strippable 900 µm tight buffered colored per TIA/EIA 598.
Cable lay up	Tight buffered tubes stranded around a central strength member of dielectric material (epoxy/fibreglass rod).
Tube filling	Subunit strength member of aramid yarn.
Tube	LSHF, colored acc. to TIA/EIA 598.
Overall wrapping	PET-foil under a filling of aramid yarns
Inner sheath	LSHF, black
Overall screen	Bare bronze wire braiding in acc. with IEEE 1580(2001)
Outer sheath	LSHF, black

Fiber performance

	62.5µm MULTIMODE	50µm MULTIMODE	200µm MULTIMODE	8.3µm SINGLEMODE
Fiber Designation	62X	50H	200S	010X
Application specs.	IEC 60793-2 Type A1b	ITU G.651 & IEC 60793-2 Type A1a	ITU G.651 & IEC 60793-2 Type A1a	ITU G.652 C & D req. & IEC 60793-2 Type B1.1
Fiber type	Graded Index	Graded Index	Step Index	Matched Clad
Core diameter	62.5µm ± 2.5µm	50µm ± 2.5µm	200µm ± 5µm	8.3µm Nominal
Cladding diameter	125µm ± 1µm	125µm ± 1µm	230µm ± 10µm	125µm ± 1µm
Coating diameter	242µm ± 7µm	242µm ± 7µm	500µm ± 30µm	242µm ± 7µm
Buffer diameter	900µm ± 50µm	900µm ± 50µm	900µm ± 50µm	900µm ± 50µm
Numerical aperture	0.275 ± 0.015	0.200 ± 0.015	0.37 nominal	N/A
Mode field diameter	N/A	N/A	N/A	9.1µm ± 0.4µm
Attenuation	820 Nm	N/A	≤ 12.0 dB/km	N/A
	850 Nm	≤ 3.5 dB/km	N/A	N/A
	1300 Nm	≤ 1.0 dB/km	N/A	≤ 0.70 dB/km
	1550 Nm	N/A	N/A	≤ 0.70 dB/km
Bandwidth	820 Nm	N/A	≤ 20 MHz/km	N/A
	850 Nm	≤ 200 MHz/km	N/A	N/A
	1300 Nm	≤ 500 MHz/km	N/A	N/A
Dispersion	1285-1330 Nm	N/A	N/A	≤ 3.0 ps/nm.km
	1550 Nm	N/A	N/A	≤ 18 ps/nm.km
Proof test	100,000 psi	100,000 psi	150,000 psi	100,000 psi

Mechanical Properties

Temperature range,	during installation	-10°C to +60°C
	during operation	-20°C to +80°C
	storage	-40°C to +80°C
Crush (IEC 60794-1-2E3)		3000 N/10cm
Impact (IEC 60794-1-2E4)		20 impacts, 5J
Torsion (IEC 60794-1-2E7)		± 1 turn/2 m, 100 cycles
Cable bending,	Cable bend	< 0.1 dB / ± 6 turns
	(IEC 60794-1-2E11)	

Technical Data

Prod.number Draka Comteq	Number of fibers	INSTALLATION		OPERATING		Outer diameter	Weight of cable approx.
		Pull strength	Bend radius	Tension	Bend radius		
		(N)	(mm)	(N)	(mm)		
S670T-02R-xyy	2	600	21.4	200	10.7	10.7	223
S670T-04-xyy	4	600	23.0	200	11.5	11.5	230
S670T-06-xyy	6	600	25.6	200	12.8	12.8	260
S670T-08-xyy	8	600	28.0	200	14.0	14.0	278
S670T-10-xyy	10	600	30.6	200	15.3	15.3	310
S670T-12-xyy	12	600	33.0	200	16.5	16.5	381
S670T-16-xyy	16	2700	34.4	600	17.2	17.2	408
S670T-18-xyy	18	2700	34.4	600	17.2	17.2	402
S670T-24-xyy	24	2700	38.0	600	19.0	19.0	484
S670T-36-xyy	36	2700	43.7	600	21.8	21.8	566
S670T-48-xyy	48	2700	58.9	600	21.8	28.9	1083

Replace the xyy with the Fiber designation in the fiber performance table above

NOTE: Fibers are not suitable for F07 crimp and cleave connector

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications

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