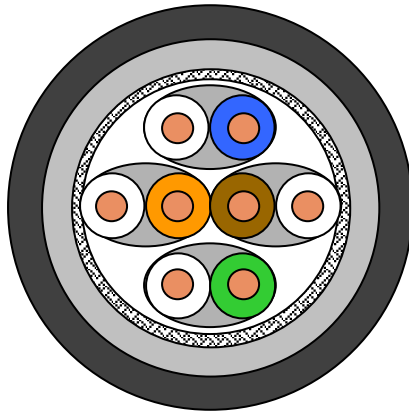


## Bergen Cabling DNV Maritime LAN S/FTP Cat7 MUD cable



### Application

Generic Data transmission. This cable is a **Cat7 S/FTP** cable is based on our **DNV certified BC-10-001 Bergen Cabling Maritime LAN Cat7 S/FTP cable**, but with an additional fire retardant, halogen-free, low smoke MUD protecting outer jacket. This cable is meant for use as installation/horizontal cable in tougher electrical and mechanical environment, including ships and offshore units.  
CPR approved with classification E<sub>ca</sub>.

### Standards

EN 50173-1; EN 50288-4-1  
ISO/IEC 11801; IEC 61156-5

### Fire rating

Inner sheath: LSHF-FR (SHF1) : IEC 60754-2; IEC 61034, IEC 60332-3-24  
MUD protecting outer sheath : IEC 60754-2; IEC 61034, IEC 60332-3-24

### Chemical resistance

Mineral oils IRM 902 (IEC60811-2-1) : - 7 days/100°C  
Diesel - IRM 903 (IEC60811-2-1) : - 7 days/100°C

### Certification

DNV certificate No. TAE0000009  
CPR classification No. 1240331

## Technical data

Part no.	Description	Colour	Outer diameter mm	Fire load		Weight kg/km
				MJ/km	kWh/m	
BC-10-005	Bergen Cabling DNV Maritime LAN S/FTP Cat7 MUD cable	Dark Grey RAL7024	9,8	*)	*)	100

## Fumigation

No fumigation needed. The cable is delivered on environmental plastic reels.

## Mechanical properties

Bending radius	Without load	8 x D
	With load	4 x D
Temperature range	During operation	-40°C to + 85°C
	During installation	-15°C to + 50°C
Fire load	4 pair	670 MJ/km
Maximum tensile load	During operation	No load
	During installation	200 N

## Electrical properties

at 20°C ± 5°C

Loop resistance		≤ 155 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	100 ± 5 Ω
	(100 - 250) MHz	100 ± 10 Ω
	(250 - 600) MHz	100 ± 15 Ω
Nominal velocity of propagation		ca. 79 %
Propagation delay		≤ 570 ns/100m
Delay skew		≤ 9 ns/100m
Test voltage	(DC, 1 min) core/core and core/screen	1000 V
Transfer impedance(Grade 1)	at 1 MHz	≤ 10 mΩ/m
	at 10 MHz	≤ 10 mΩ/m
	at 30 MHz	≤ 10 mΩ/m
	at 100MHz	≤ 20 mΩ/m
Coupling attenuation		≥ 85 dB



## Electrical data (nominal)

acc. to Cat.7 (at 20°C)

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,8	100	97	98	95	105	105	-
4,0	3,4	100	97	97	94	105	102	27
10,0	5,4	100	97	95	92	97	94	30
16,0	6,8	100	97	93	90	93	90	30
20,0	7,7	100	97	92	89	91	88	30
31,2	9,6	100	97	90	87	87	84	30
62,5	13,7	100	97	86	83	81	78	30
100,0	17,4	100	97	83	80	77	74	30
125,0	19,5	95	92	75	72	75	72	26
155,5	21,9	94	91	72	69	73	70	26
175,0	23,3	93	90	70	67	72	69	25
200,0	25,0	92	89	67	64	71	68	25
250,0	28,1	90	87	62	59	69	66	24
300,0	30,9	89	86	58	55	67	64	24
450,0	38,3	87	84	48	45	64	61	23
600,0	44,8	85	82	40	37	61	58	22

## Other info

Country of origin: DE  
HS code: 85444911

## Ordering info

Part No.	El No.	EqHub No.	Description
<b>BC-10-005</b>	1000804	883350	Bergen Cabling DNV Maritime LAN S/FTP Cat7 MUD SHF1 Black