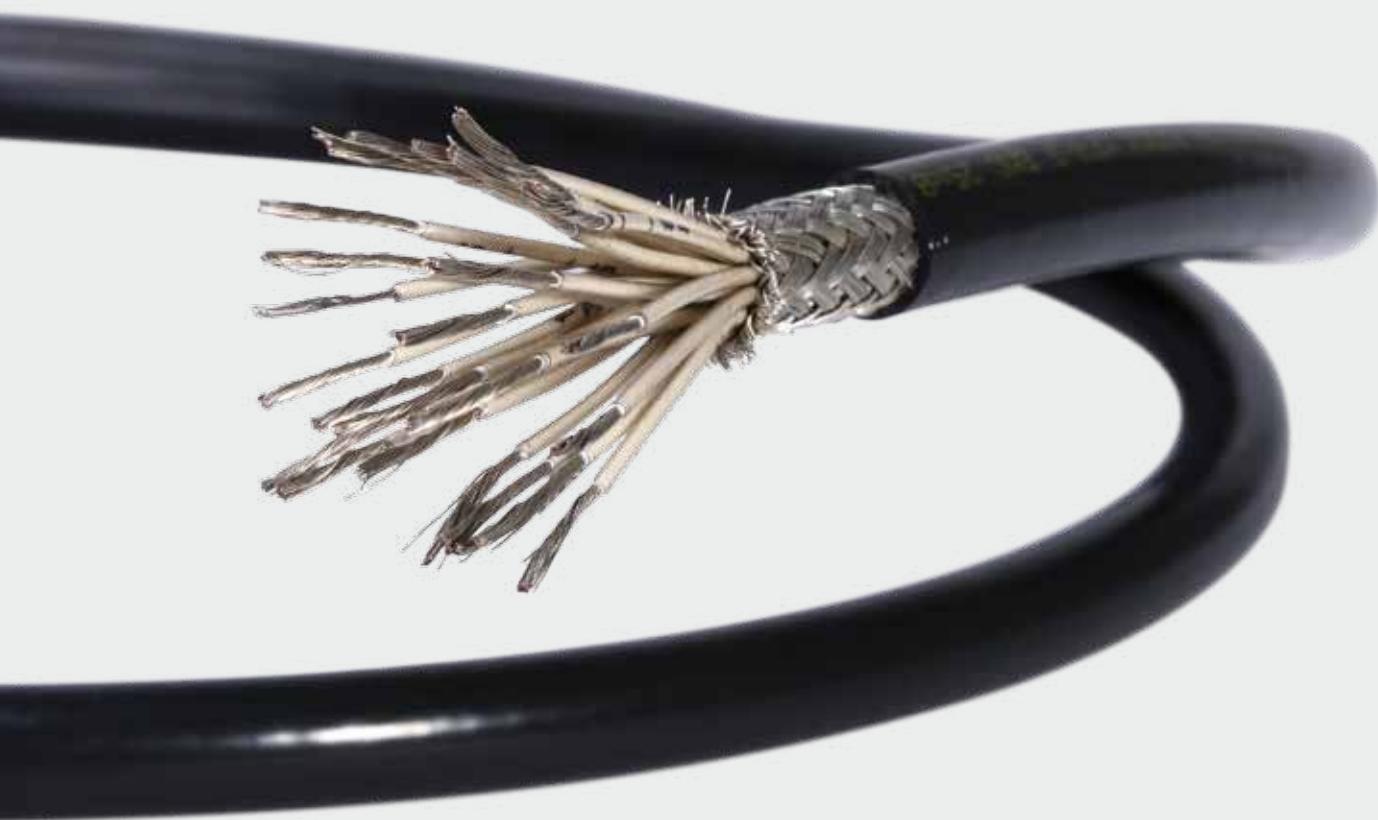


RADOX® MFH-S

for offshore installations



Applications

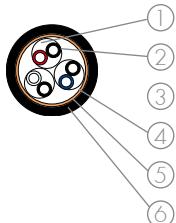
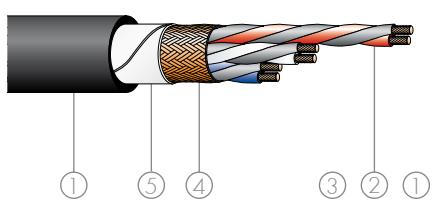
- Shipbuilding as well as oil and gas platforms
- Indoor and outdoor installations
- EX zone 0, 1, 2 and safety zones
- Energy and signal transmission
- Fixed and moving installations
- For example: cabinets, ships, diesel engines, lighting, control systems

Customer benefits

- Extremely flexible – uniquely small bending radius
- Thin and lightweight
- Temperature range from -50 to +145 °C
- Particularly abrasion and vibration resistant
- Particularly resistant to mud, diesel, oil, ozone, hydrolysis and the effects of weather
- Halogen-free and flame retardant

RADOX® MFH-S

MFH-S Multi-core cables and twisted pairs, screened and unscreened



- Resistant to ozone, hydrolysis, media and weather
- Easy to process
- Lightweight and flexible
- Large temperature range
- Halogen-free
- Flame retardant

Structure

① Centre (if necessary)	RADOX filler
② Cores	type MA14; RADOX TI301 (145 °C / 20'000 hours)
Conductors	stranded tin plated copper, acc. to EN 60228, class 5
Core colours	optional with pair screen and drain wire
③ Fillers (optional)	see table
④ EMC screening	RADOX
⑤ Separator	optimised tin plated copper braid, optical coverage ≥ 85 %
⑥ Sheath	textile yarn
Colour	RADOX elastomer S FH (SHF 2; SHF Mud NEK 606)
	black and blue

Technical data

Voltage rating U/U	600/1000 V AC
Test voltage	3500 V AC
Temperature range	-50 to +145 °C
Min. bending radius	fixed
	≤ 12 mm 3 × cable-dia
	≥ 12 mm 4 × cable-dia
	flexing
	> 12 mm 5 × cable-dia
	> 12 mm 6 × cable-dia

Fire tests

Flame propagation:	
Vertical of a single cable	EN 50265-2-1, IEC 60332-1
Content of halogen acid gas	EN 50267-2-1, IEC 60754-1 0 mg/g

Fire protection in rolling stock:	
Level of protection	DIN 5510
Hazard level	HL1 - HL3

Approvals

GERMANISCHER LLOYD	certificate no. 43159-02 HH
DNV	certificate no. E-12873
NEK 606	mud resistant

TAP DNV 827.11
NEK TS 606, 4.1

Extract from our delivery programme

Multi cores

Cross section	R ₂₀ IEC 60228	Overall screen cross section	Cable	Core colours	Weight
n × mm ²	max. Ω/km	mm ²	Ø mm		nom. kg/100 m
3 × 0.5	40.1	2.11	5.75 ± 0.3	bk, bu, bn	6.4
5 × 0.75	26.7	2.9	7.35 ± 0.3	bk, bu, bn, gy, light blu	10.9
7 × 0.75	26.7	3.43	8.35 ± 0.3	bk, bu, bn, gy, light blu, wh, og	14.1
12 × 0.75	26.7	3.96	9.55 ± 0.3	wh num	18.8
25 × 0.75	26.7	5.94	12.9 ± 0.4	wh num	33.6
37 × 0.75	26.7	9.98	14.8 ± 0.4	wh num	50.0
50 × 0.75	26.7	11.64	17.1 ± 0.5	wh num	64.8
3 × 1.5	13.7	2.9	7.45 ± 0.3	bk, bu, bn	11.8
5 × 1.5	13.7	3.96	8.9 ± 0.3	bk, bu, bn, gy, light blu	16.8
7 × 1.5	13.7	4.0	10.1 ± 0.4	bk, bu, bn, gy, light bu, wh, og	21.7
12 × 1.5	13.7	5.55	11.9 ± 0.4	wh num	31.4
3 × 2.5	8.21	2.9	8.6 ± 0.3	bk, bu, bn	15.6
5 G 2.5	26.7	4.36	10.5 ± 0.4	gnye, bu, bn, bk, gy	23.7
19 × 2.5	8.21	10.9	17.9 ± 0.5	wh num	73.4
3 × 4	4.8	3.7	9.8 ± 0.3	bk, bu, bn	22.0
4 × 4	5.09	5.22	13.0 ± 0.4	bu, bn, bk, bk	29.7
3 × 6	3.2	4.22	11.3 ± 0.4	bk, bu, bn	30.1
8 × 2.5 und 2 × 0.75	26.7	9.98	15.3 ± 0.5	wh num	47.7

Other cross sections on request..

Twisted pairs

Cross section	R ₂₀ IEC 60228	Overall screen cross section	Cable	Core colours	Weight
n × mm ²	max. Ω/km	mm ²	Ø mm		nom. kg/100 m
2 × 0.5	40.1	2.11	5.55 ± 0.3	bk, bu	5.8
2 × 2 × 0.5	40.1	2.38	7.9 ± 0.3	bk, bu, bn, gy	10.1
2 × (2 × 0.5)	40.1	3.17	8.3 ± 0.3	bk, bu, bn, gy	12.0
5 × 2 × 0.5	40.1	3.96	9.75 ± 0.3	wh num	16.4
7 × 2 × 0.5	40.1	4.75	11.8 ± 0.4	wh num	22.8
14 × 2 × 0.5	40.1	9.98	14.1 ± 0.4	wh num	34.8
14 × (2 × 0.5)	40.1	9.98	15.5 ± 0.5	wh num	45.5
4 × 2 × 0.75	26.7	3.96	10.0 ± 0.3	wn num	16.4
4 × (2 × 0.75)	26.7	4.75	10.5 ± 0.3	wh num	21.3
8 × 2 × 0.75	26.7	9.98	11.6 ± 0.4	wn num	24.5
12 × 2 × 0.75	26.7	9.98	15.6 ± 0.5	wh num	43.9
12 × (2 × 0.75)	26.7	11.64	17.1 ± 0.5	wh num	54.0
19 × 2 × 0.75	26.7	11.64	18.3 ± 0.5	wh num	60.4
8 × (2 × 1.5)	13.7	13.86	19.5 ± 0.5	wh num	72.4
16 × (2 × 1.5)	13.7	16.63	24.0 ± 0.5	wh num	122.2
2 × 4	5.09	3.7	10.8 ± 0.4	bk, bu	18.6
2 × 2 × 2.5	8.21	5.55	13.7 ± 0.4	bk, bu, bn, gy	28.7
2 × (2 × 2.5)	8.21	5.15	13.9 ± 0.4	bk, bu, bn, gy	33.0
2 × 2 × 4	4.8	9.98	16.6 ± 0.5	bk, bu, bn, gy	46.8
2 × 6	3.2	4.36	10.7 ± 0.4	bk, bu	24.4
2 × 2 × 6	3.2	13.3	18.9 ± 0.5	bk, bu, bn, gy	58.9

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HUBER+SUHNER is certified according to ISO 9001,
ISO 14001, ISO/TS 16949 and IRIS.

Waiver

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