



TOXFREE MARINE XZ1-K (AS)

The marine power cable.

IEC 60502-1 / IEC 60092-353

DESIGN

1. Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228 and IEC 60228.

2. Insulation

LSZH XLPE 90°C.

The standard identification is the following:

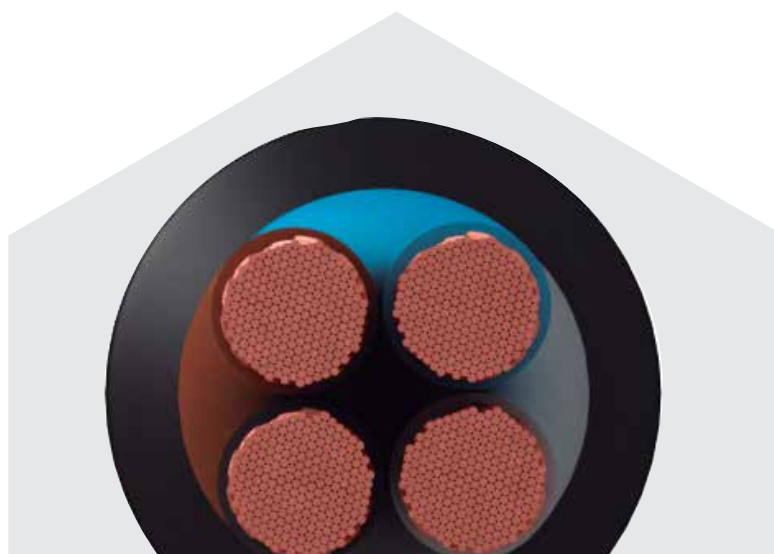
- 1 x..... Black
- 2 x Blue + Brown
- 3 x..... Brown + Black + Grey
- 4 x Blue + Brown + Black + Grey
- 5 or more conductors White with black numbers

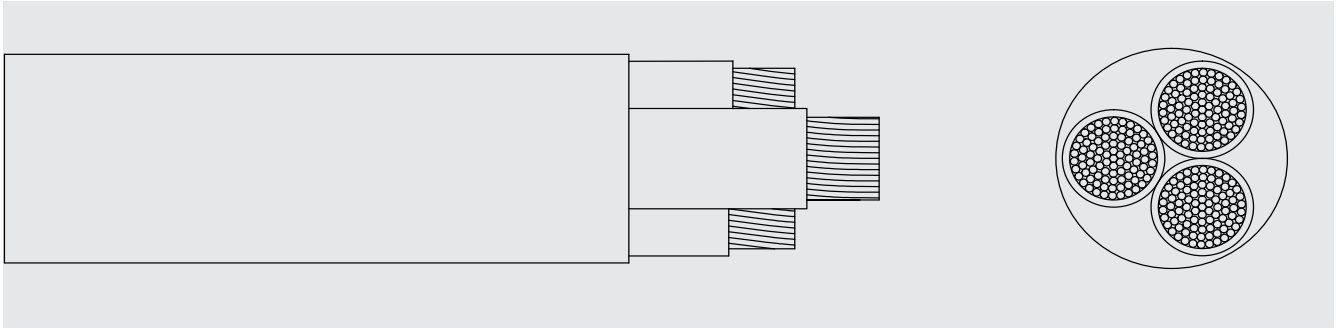
3. Outer sheath

LSZH polyolefin outer sheath SHF1 type. Black colour, fire retardant.

APPLICATIONS

The Toxfree Marine XZ1-K (AS) cable with zero halogen is a safety cable. In case of fire, it does not emit toxic or corrosive gases, thereby protecting public health and avoiding any possible damage to electronic equipment. For this reason, its use is recommended in marine applications.





CHARACTERISTICS



Electrical performance

LOW VOLTAGE 0.6/1 kV



Standards

IEC 60502-1 / IEC 60092-353



Approvals

DNV-GL
ABS
Bureau Veritas
Lloyd's Register
CE
RoHS



Thermal performance

Maximum service temperature: 90°C.
Maximum short-circuit temperature: 250°C (max. 5 s).
Minimum service temperature: -40°C (fixed and protected installations).



Fire performance

Flame non-propagation based on UNE-EN 60332-1 and IEC 60332-1.
Fire non-propagation based on EN 60332-3-22 and IEC 60332-3-22.
LSZH (Low Smoke Zero Halogen) based on UNE-EN 60754-1 and IEC 60754-1.
Low smoke emission based on UNE-EN 61034 and IEC 61034.: Light transmittance > 60%
Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.



Mechanical performance

Minimum bending radius: x5 cable diameter.
Impact resistance: AG2 Medium severity.



Chemical performance

Chemical & Oil resistance: Good.



Water performance

Water resistance: AD6 waves.



Other

Metre by metre marking.
Ripcord.
Electric fields resistant.



Installation conditions

Open Air.
Buried.
In conduit.



Applications

Industrial use.
Public places.





DIMENSIONS

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	Open Air 45°C (A)	Voltage drop (V/A·km)	Conductor resistance at 20°C (Ohm/Km)
1 x 2,5	5,4	45	25	17,7	7,98
1 x 4	5,9	61	35	11	4,95
1 x 6	6,5	81	46	7,32	3,3
1 x 10	7,4	122	64	4,23	1,91
1 x 16	8,6	181	88	2,68	1,21
1 x 25	10,4	271	117	1,73	0,78
1 x 35	11,7	370	147	1,23	0,55
1 x 50	13,4	510	180	0,86	0,39
1 x 70	15,3	704	233	0,6	0,27
1 x 95	17,4	923	285	0,46	0,21
1 x 120	19	1.157	333	0,36	0,16
1 x 150	21,3	1.438	386	0,29	0,13
1 x 185	23,9	1.750	444	0,24	0,11
1 x 240	26,9	2.283	528	0,18	0,08
1 x 300	29,6	2.864	612	0,14	0,06
2 x 1,5	8	97	23	34	13,3
2 x 2,5	9,1	131	31	20,4	7,98
2 x 4	10,2	176	43	12,7	4,95
2 x 6	11,4	234	55	8,45	3,3
2 x 10	13,3	348	75	4,89	1,91
2 x 16	15,1	493	100	3,1	1,21
3 x 1,5	8,9	118	23	34	13,3
3 x 2,5	9,8	156	31	20,4	7,98
3 x 4	10,9	211	43	12,7	4,95
3 x 6	12,2	285	55	8,45	3,3
3 x 10	14,6	442	75	4,89	1,91
3 x 16	16,8	642	87	2,68	1,21
3 x 25	21	1.008	110	1,73	0,78
3 x 35	24	1.363	137	1,23	0,55
3 x 50	27,9	1.894	167	0,86	0,39
3 x 70	30,5	2.532	214	0,6	0,27
3 x 95	36,6	3.397	259	0,46	0,21
3 x 120	40,2	4.252	301	0,36	0,16
3 x 150	45,1	5.299	347	0,29	0,13

Cross section (mm ²)	Diameter (mm)	Weight (Kg/km)	Open Air 45°C (A)	Voltage drop (V/A·km)	Conductor resistance at 20°C (Ohm/Km)
3 x 185	50,7	6.495	397	0,24	0,11
3 x 240	57,3	8.461	468	0,18	0,08
4 x 1,5	9,7	140	20	29,5	13,3
4 x 2,5	10,6	185	28	17,7	7,98
4 x 4	12,1	262	37	11	4,95
4 x 6	13,5	351	47	7,32	3,3
4 x 10	16	544	65	4,23	1,91
4 x 16	18,7	802	87	2,68	1,21
4 x 25	23,7	1.271	110	1,73	0,78
4 x 35	25,9	1.690	137	1,23	0,55
4 x 50	31,3	2.396	167	0,86	0,39
4 x 70	35,8	3.284	214	0,6	0,27
4 x 95	40,6	4.282	259	0,46	0,21
4 x 120	44,8	5.391	301	0,36	0,16
4 x 150	50,2	6.748	347	0,29	0,13
4 x 185	56,5	8.262	397	0,24	0,11
4 x 240	63,7	10.763	468	0,18	0,08
5 x 1,5	10,4	165	20	29,5	13,3
5 x 2,5	11,8	229	28	17,7	7,98
5 x 4	13,3	315	37	11	4,95
5 x 6	15	431	47	7,32	3,3
5 x 10	17,7	670	65	4,23	1,91
5 x 16	20,8	991	87	2,68	1,21
7 x 1,5	11,4	204	11	29,5	13,3
7 x 2,5	13	284	15	17,7	7,98
10 x 1,5	13,4	277	10	29,5	13,3
12 x 1,5	14,3	326	9	29,5	13,3
12 x 2,5	17,2	477	12	17,7	7,98
14 x 1,5	15,4	333	9	29,5	13,3
16 x 1,5	16,6	384	8	29,5	13,3
19 x 1,5	17,3	435	8	29,5	13,3
19 x 2,5	20,3	632	11	17,7	7,98
24 x 1,5	19,5	542	7	29,5	13,3
27 x 1,5	20,7	601	7	29,5	13,3
27 x 2,5	24,3	876	9	17,7	7,98

For further technical data please request this cable's technical datasheet.

Top Cable reserves the right to carry out any modification whatsoever without giving previous notice.

For more information: sales@topcable.com