

HF-CXOSA 0.6/1kV

Halogen free low smoke power cables,
with copper wire braiding



Type Approval Certificates

• ABS • DNV-GL • LR • NK • CCS • BV

Application

For fixed installations in all areas and open deck



Applicable standards

Design	: IEC 60092-350, IEC 60092-353
Materials	: IEC 60092-360 XLPE SHF1
Flame retardant	: IEC 60332-1-2 & IEC 60332-3-22 Category A
Halogen free properties	: IEC 60754-1, 0.5% ↓
Smoke emission	: IEC 61034-1, 60% ↑
Fluorine content	: IEC 60684-2, 0.1% ↓
Cold bend/impact test	: CSA C 22.2 No. 0.3
	Bend : -40°C / Impact : -35°C

Conductor

acc. to IEC 60228 - Class 2 circular stranded copper for size 10mm² and below
- Class 5 flexible conductor for size 16mm² and above

Insulation

XLPE as per IEC 60092-360

Filler

Polypropylene yarn

Inner Covering

Polyester tape

Braid Armour

Tinned or plain annealed copper wire braid (SA)

Outer Sheath

SHF1 as per IEC 60092-360

Colour of Outer Sheath

Black

Core Identification

1-core	: black	2-core+E	: blue, brown, Green/Yellow
2-core	: blue, brown	3-core+E	: brown, black, grey. Green/Yellow
3-core	: brown, black, grey	4-core+E	: blue, brown, black, grey, Green/Yellow
4-core	: blue, brown, black, grey		
5-core & more	: white with black numbering		

Designation

HF	Halogen free 无卤
C	Power voltage cables 电力电缆
X	XLPE insulation 交联聚乙烯绝缘
O	Halogen free inner covering (lapped) and SHF1 outer sheath thermoplastic compound 无卤内护套(重叠)和热塑型混合物SHF1外护套
SA	Tinned or plain annealed copper wire braid (SA) 普通或镀锡铜丝编织(SA)

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No. of Cores	Conductor		Insulation Thickness	Inner Covering Thickness	Armour	Sheath Thickness	Outer Dia.	Tolerance	Cable Weight
	Area	Overall dia.					Approx.	Approx.	Approx.
No.s	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km
1	1	1.29	0.7	0.4	0.2	1.0	6.3	1.4	125
1	1.5	1.59	0.7	0.4	0.2	1.0	6.6	1.4	135
1	2.5	2.01	0.7	0.4	0.2	1.0	7.0	1.4	150
1	4	2.55	0.7	0.4	0.2	1.0	7.6	1.4	170
1	6	3.12	0.7	0.4	0.2	1.0	8.1	1.5	195
1	10	4.05	0.7	0.4	0.2	1.1	9.3	1.5	250
1	16	5.10	0.7	0.4	0.2	1.1	10.3	1.6	315
1	25	6.42	0.9	0.4	0.2	1.2	12.2	1.7	430
1	35	7.56	0.9	0.4	0.2	1.2	13.4	1.7	535
1	50	8.90	1.0	0.4	0.3	1.3	15.5	1.8	710
1	70	10.70	1.1	0.4	0.3	1.4	17.7	1.9	950
1	95	12.60	1.1	0.4	0.3	1.4	19.6	2.0	1225
1	120	14.21	1.2	0.4	0.3	1.5	21.6	2.1	1495
1	150	15.75	1.4	0.4	0.3	1.6	23.8	2.2	1805
1	185	17.64	1.6	0.4	0.3	1.6	26.0	2.3	2200
1	240	20.25	1.7	0.4	0.3	1.7	29.1	2.5	2805
1	300	22.68	1.8	0.4	0.3	1.8	31.9	2.6	3445
1	400	25.65	2.0	0.4	0.3	2.0	35.7	2.8	4340
2	1	1.29	0.7	0.4	0.2	1.1	9.2	1.5	180
2	1.5	1.59	0.7	0.4	0.2	1.1	9.8	1.5	200
2	2.5	2.01	0.7	0.4	0.2	1.1	10.6	1.6	230
2	4	2.55	0.7	0.4	0.2	1.2	12.0	1.6	280
2	6	3.12	0.7	0.4	0.2	1.2	13.0	1.7	335
2	10	4.05	0.7	0.4	0.3	1.3	15.6	1.8	490
2	16	5.10	0.7	0.4	0.3	1.4	17.8	1.9	650
2	25	6.42	0.9	0.4	0.3	1.5	21.4	2.1	915
2	35	7.56	0.9	0.4	0.3	1.6	24.0	2.2	1170
2	50	8.90	1.0	0.4	0.3	1.7	27.2	2.4	1495
2	70	10.70	1.1	0.4	0.3	1.8	31.4	2.6	2025
2	95	12.60	1.1	0.4	0.3	1.9	35.4	2.8	2650
2	120	14.21	1.2	0.4	0.4	2.1	39.8	3.0	3365
2	150	15.75	1.4	0.4	0.4	2.2	44.0	3.2	4075
2	185	17.64	1.6	0.4	0.4	2.4	48.8	3.5	5020
2	240	20.25	1.7	0.6	0.4	2.6	55.4	3.8	6435
2	300	22.68	1.8	0.6	0.4	2.8	61.0	4.1	7900
3	1	1.29	0.7	0.4	0.2	1.1	9.6	1.5	195
3	1.5	1.59	0.7	0.4	0.2	1.1	10.3	1.6	225
3	2.5	2.01	0.7	0.4	0.2	1.1	11.1	1.6	260
3	4	2.55	0.7	0.4	0.2	1.2	12.6	1.7	330
3	6	3.12	0.7	0.4	0.2	1.2	13.7	1.7	405
3	10	4.05	0.7	0.4	0.3	1.3	16.5	1.9	600
3	16	5.10	0.7	0.4	0.3	1.4	18.8	2.0	815
3	25	6.42	0.9	0.4	0.3	1.5	22.7	2.2	1180
3	35	7.56	0.9	0.4	0.3	1.6	25.5	2.3	1530
3	50	8.90	1.0	0.4	0.3	1.8	29.1	2.5	1980
3	70	10.70	1.1	0.4	0.3	1.9	33.7	2.7	2715
3	95	12.60	1.1	0.4	0.3	2.0	38.0	2.9	3590
3	120	14.21	1.2	0.4	0.4	2.2	42.7	3.2	4555
3	150	15.75	1.4	0.4	0.4	2.3	47.2	3.4	5530
3	185	17.64	1.6	0.4	0.4	2.5	52.3	3.7	6835
3	240	20.25	1.7	0.6	0.4	2.7	59.4	4.0	8805
4	1	1.29	0.7	0.4	0.2	1.1	10.3	1.6	220
4	1.5	1.59	0.7	0.4	0.2	1.1	11.1	1.6	250
4	2.5	2.01	0.7	0.4	0.2	1.2	12.2	1.7	305

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No. of Cores	Conductor		Insulation Thickness	Inner Covering Thickness	Armour	Sheath Thickness	Outer Dia.	Tolerance	Cable Weight
	Area	Overall dia.					Approx.	Approx.	Approx.
No.s	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km
4	4	2.55	0.7	0.4	0.2	1.2	13.7	1.7	390
4	6	3.12	0.7	0.4	0.3	1.3	15.5	1.8	520
4	10	4.05	0.7	0.4	0.3	1.4	18.1	2.0	735
4	16	5.10	0.7	0.4	0.3	1.5	20.7	2.1	1015
4	25	6.42	0.9	0.4	0.3	1.6	25.0	2.3	1480
4	35	7.56	0.9	0.4	0.3	1.7	28.1	2.5	1935
4	50	8.90	1.0	0.4	0.3	1.9	32.2	2.7	2520
4	70	10.70	1.1	0.4	0.3	2.0	37.2	2.9	3470
4	95	12.60	1.1	0.4	0.4	2.2	42.6	3.2	4730
4	120	14.21	1.2	0.4	0.4	2.3	47.2	3.4	5850
4	150	15.75	1.4	0.6	0.4	2.5	52.8	3.7	7145
4	185	17.64	1.6	0.6	0.4	2.7	58.5	4.0	8845
5	1	1.29	0.7	0.4	0.2	1.1	11.1	1.6	240
5	1.5	1.59	0.7	0.4	0.2	1.2	12.1	1.7	285
5	2.5	2.01	0.7	0.4	0.2	1.2	13.2	1.7	345
5	4	2.55	0.7	0.4	0.3	1.3	15.4	1.8	490
5	6	3.12	0.7	0.4	0.3	1.3	16.8	1.9	610
5	10	4.05	0.7	0.4	0.3	1.4	19.7	2.0	870
5	16	5.10	0.7	0.4	0.3	1.5	22.6	2.2	1210
5	25	6.42	0.9	0.4	0.3	1.7	27.5	2.4	1795
5	35	7.56	0.9	0.4	0.3	1.8	31.0	2.6	2360
5	50	8.90	1.0	0.4	0.3	2.0	35.4	2.8	3075
5	70	10.70	1.1	0.4	0.4	2.2	41.6	3.1	4370
6	1	1.29	0.7	0.4	0.2	1.2	12.1	1.7	270
6	1.5	1.59	0.7	0.4	0.2	1.2	13.0	1.7	315
6	2.5	2.01	0.7	0.4	0.3	1.3	14.8	1.8	425
7	1	1.29	0.7	0.4	0.2	1.2	12.1	1.7	280
7	1.5	1.59	0.7	0.4	0.2	1.2	13.0	1.7	330
7	2.5	2.01	0.7	0.4	0.3	1.3	14.8	1.8	450
8	1	1.29	0.7	0.4	0.2	1.2	13.3	1.7	315
8	1.5	1.59	0.7	0.4	0.3	1.3	14.9	1.8	410
8	2.5	2.01	0.7	0.4	0.3	1.3	16.4	1.9	510
9	1	1.29	0.7	0.4	0.3	1.3	14.8	1.8	380
9	1.5	1.59	0.7	0.4	0.3	1.3	16.0	1.8	450
9	2.5	2.01	0.7	0.4	0.3	1.4	17.8	1.9	575
10	1	1.29	0.7	0.4	0.3	1.3	15.4	1.8	405
10	1.5	1.59	0.7	0.4	0.3	1.3	16.6	1.9	480
10	2.5	2.01	0.7	0.4	0.3	1.4	18.4	2.0	615
12	1	1.29	0.7	0.4	0.3	1.3	15.8	1.8	435
12	1.5	1.59	0.7	0.4	0.3	1.4	17.2	1.9	530
12	2.5	2.01	0.7	0.4	0.3	1.4	19.0	2.0	675
14	1	1.29	0.7	0.4	0.3	1.3	16.5	1.9	470
14	1.5	1.59	0.7	0.4	0.3	1.4	18.0	1.9	580
14	2.5	2.01	0.7	0.4	0.3	1.5	20.0	2.0	750
16	1	1.29	0.7	0.4	0.3	1.4	17.4	1.9	520
16	1.5	1.59	0.7	0.4	0.3	1.4	18.9	2.0	635
16	2.5	2.01	0.7	0.4	0.3	1.5	21.0	2.1	830
18	1	1.29	0.7	0.4	0.3	1.4	18.3	2.0	560
18	1.5	1.59	0.7	0.4	0.3	1.5	20.0	2.0	695
18	2.5	2.01	0.7	0.4	0.3	1.5	22.1	2.2	905
19	1	1.29	0.7	0.4	0.3	1.4	18.3	2.0	570
19	1.5	1.59	0.7	0.4	0.3	1.5	20.0	2.0	710
19	2.5	2.01	0.7	0.4	0.3	1.5	22.1	2.2	930
20	1	1.29	0.7	0.4	0.3	1.4	19.1	2.0	605

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No. of Cores	Conductor		Insulation Thickness	Inner Covering Thickness	Armour	Sheath Thickness	Outer Dia.	Tolerance	Cable Weight
	Area	Overall dia.					Approx.	Approx.	Approx.
No.s	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km
20	1.5	1.59	0.7	0.4	0.3	1.5	20.9	2.1	755
20	2.5	2.01	0.7	0.4	0.3	1.6	23.4	2.2	1000
23	1	1.29	0.7	0.4	0.3	1.5	20.3	2.1	670
23	1.5	1.59	0.7	0.4	0.3	1.5	22.0	2.1	830
23	2.5	2.01	0.7	0.4	0.3	1.6	24.5	2.3	1105
24	1	1.29	0.7	0.4	0.3	1.5	21.1	2.1	705
24	1.5	1.59	0.7	0.4	0.3	1.6	23.1	2.2	885
24	2.5	2.01	0.7	0.4	0.3	1.7	25.9	2.3	1180
27	1	1.29	0.7	0.4	0.3	1.5	21.5	2.1	750
27	1.5	1.59	0.7	0.4	0.3	1.6	23.6	2.2	945
27	2.5	2.01	0.7	0.4	0.3	1.7	26.4	2.4	1265
28	1	1.29	0.7	0.4	0.3	1.5	22.2	2.2	780
28	1.5	1.59	0.7	0.4	0.3	1.6	24.4	2.3	985
28	2.5	2.01	0.7	0.4	0.3	1.7	27.3	2.4	1320
30	1	1.29	0.7	0.4	0.3	1.5	22.2	2.2	800
30	1.5	1.59	0.7	0.4	0.3	1.6	24.4	2.3	1015
30	2.5	2.01	0.7	0.4	0.3	1.7	27.3	2.4	1365
32	1	1.29	0.7	0.4	0.3	1.6	23.2	2.2	855
32	1.5	1.59	0.7	0.4	0.3	1.6	25.2	2.3	1075
32	2.5	2.01	0.7	0.4	0.3	1.7	28.2	2.5	1445
33	1	1.29	0.7	0.4	0.3	1.6	23.2	2.2	865
33	1.5	1.59	0.7	0.4	0.3	1.6	25.2	2.3	1090
33	2.5	2.01	0.7	0.4	0.3	1.7	28.2	2.5	1470
34	1	1.29	0.7	0.4	0.3	1.6	24.0	2.2	900
34	1.5	1.59	0.7	0.4	0.3	1.7	26.3	2.4	1145
34	2.5	2.01	0.7	0.4	0.3	1.8	29.5	2.5	1545
37	1	1.29	0.7	0.4	0.3	1.6	24.0	2.2	930
37	1.5	1.59	0.7	0.4	0.3	1.7	26.3	2.4	1190
37	2.5	2.01	0.7	0.4	0.3	1.8	29.5	2.5	1615
44	1	1.29	0.7	0.4	0.3	1.7	26.9	2.4	1110
44	1.5	1.59	0.7	0.4	0.3	1.8	29.5	2.5	1415
44	2.5	2.01	0.7	0.4	0.3	1.9	33.1	2.7	1930



