GAALSHIP® HF 250 OS FR WSR

Pairs/triples twisted cables telecommunication and instrumentation cable, overall screened, fire resistant and water spray resistant



Applications:

Fire resistant and water spray instrumentation cables for fixed electrical installations aboard ships, screened against electromagnetic interferences, suitable for the signal and telecommunication of safety-fire devices.
These cables prevent the cable short-circuit due to water sprays of Fire Fighters' hydrants used during the fire, allowing the continuous operation of these devices.

Construction:

Conductor:	Plain annealed copper or Tinned annealed copper conductor Cl. 2, acc. to IEC 60228, DIN VDE 0295
Insulation:	MICA glass tape + GAALTHERM® 597
Cores color:	Pair: black- light blue Triple: black- light blue - brown
Stranding:	Core laid-up together in pairs/triples
Overall screen:	Aluminium/polyester tape with tinned annealed copper stranded drain wire
1st Wrapping:	Glass fiber tape
2nd Wrapping:	Two plain annealed copper / polyester tapes
3rd Wrapping:	Glass fiber tape
Outer sheath:	Halogen free thermoplastic compound SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 250 OS FR WSR, cross nominal section sqmm, 150/250 V, part n°, IEC 60092-376, IEC 60332-3-22, IEC 60331, BS 8491, production plant, batch n°, production date, CE RoHS, progressive meter marking.

Technical data:

Nominal voltage:	150/250 V
Temperature range:	-40°C up to +90°C
Installation temp.:	-5°C
Short circuit temperature:	+250°C
Min. bending radius:	4 x Outer diameter

Type Approvals/Certificates:

RINA / RINAMIL (Registro Italiano Navale)

BV (Bureau Veritas)

LR (Lloyd's Register)

DNV-GL (Det Norske Veritas - Germanisher Lloyd) in progress

ABS (American Bureau of Shipping)

Other approvals on request

Resistance:

Fire resistant acc. to:
IEC 60331-21,
IEC 60331-2 (under 20 mm Ø),
IEC 60331-1 (over 20 mm Ø),
EN 50200 Annex E Water Spray Test,
BS 8491 Water Jet Test

Flame and fire retardant acc. to:
IEC 60332-1-2,
IEC 60332-3-22

Halogen free acc. to:
IEC 60754-1/2

Smoke emission properties acc. to:
IEC 61034-1/2

Features:

Sheathing and insulating materials acc. to IEC 60092-360

Design guidelines acc. to IEC 60092-350/376

Choice and installation of electric cables acc. to IEC 60092-352

Cold bend test at low temperatures
acc. to CSA C22.2 No. 0.3-09 (-40°C)

Cold bend impact at low temperatures
acc. to CSA C22.2 No. 0.3-09 (-35°C)

On request class 5 conductor acc. to IEC 60228

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11200CGX012M05	1 x 2 x 0,5	Orange	9,2	26	114
11200CGX012M07	1 x 2 x 0,75	Orange	9,6	31	126
11200CGX012M10	1 x 2 x 1	Orange	10	37	138
11200CGX012M15	1 x 2 x 1,5	Orange	10,9	48	165
11200CGX012M25	1 x 2 x 2,5	Orange	11,7	69	200
11200CGX012M05	2 x 2 x 0,5	Orange	12,3	42	178
11200CGX022M07	2 x 2 x 0,75	Orange	13,1	53	207
11200CGX022M10	2 x 2 x 1	Orange	13,9	63	233
11200CGX022M15	2 x 2 x 1,5	Orange	15,5	86	293
11200CGX022M25	2 x 2 x 2,5	Orange	16,9	127	366
11200CGX032M05	3 x 2 x 0,5	Orange	13,1	53	198
11200CGX032M07	3 x 2 x 0,75	Orange	13,9	68	228
11200CGX032M10	3 x 2 x 1	Orange	14,7	84	255
11200CGX032M15	3 x 2 x 1,5	Orange	16,5	116	325
11200CGX032M25	3 x 2 x 2,5	Orange	18,1	177	415
11200CGX042M05	4 x 2 x 0,5	Orange	14,5	64	247
11200CGX042M07	4 x 2 x 0,75	Orange	15,4	85	287
11200CGX042M10	4 x 2 x 1	Orange	16,3	106	326
11200CGX042M15	4 x 2 x 1,5	Orange	18,3	148	417
11200CGX042M25	4 x 2 x 2,5	Orange	20	228	535
11200CGX052M05	5 x 2 x 0,5	Orange	15,6	76	290
11200CGX052M07	5 x 2 x 0,75	Orange	16,6	102	338
11200CGX052M10	5 x 2 x 1	Orange	17,6	128	387
11200CGX052M15	5 x 2 x 1,5	Orange	19,8	180	497
11200CGX052M25	5 x 2 x 2,5	Orange	21,8	279	643
11200CGX062M05	6 x 2 x 0,5	Orange	16,9	88	345
11200CGX062M07	6 x 2 x 0,75	Orange	18,1	119	401
11200CGX062M10	6 x 2 x 1	Orange	19,2	150	456
11200CGX062M15	6 x 2 x 1,5	Orange	21,6	212	591
11200CGX062M25	6 x 2 x 2,5	Orange	23,8	331	775
11200CGX072M05	7 x 2 x 0,5	Orange	16,9	98	347
11200CGX072M07	7 x 2 x 0,75	Orange	18,1	133	408
11200CGX072M10	7 x 2 x 1	Orange	19,2	169	470
11200CGX072M15	7 x 2 x 1,5	Orange	21,6	240	610
11200CGX072M25	7 x 2 x 2,5	Orange	23,8	379	807
11200CGX082M05	8 x 2 x 0,5	Orange	19,7	112	470
11200CGX082M07	8 x 2 x 0,75	Orange	21,1	153	547
11200CGX082M10	8 x 2 x 1	Orange	22,4	194	619
11200CGX082M15	8 x 2 x 1,5	Orange	25,3	276	786
11200CGX082M25	8 x 2 x 2,5	Orange	27,9	434	1015
11200CGX102M05	10 x 2 x 0,5	Orange	20,6	133	515
11200CGX102M07	10 x 2 x 0,75	Orange	22	183	606
11200CGX102M10	10 x 2 x 1	Orange	23,5	234	704
11200CGX102M15	10 x 2 x 1,5	Orange	26,5	336	915
11200CGX102M25	10 x 2 x 2,5	Orange	29,4	532	1210
11200CGX122M05	12 x 2 x 0,5	Orange	22,6	155	608
11200CGX122M07	12 x 2 x 0,75	Orange	24,1	216	713
11200CGX122M10	12 x 2 x 1	Orange	25,7	276	824
11200CGX122M15	12 x 2 x 1,5	Orange	29,2	397	1073
11200CGX122M25	12 x 2 x 2,5	Orange	32,2	633	1410
11200CGX142M05	14 x 2 x 0,5	Orange	23,5	176	657
11200CGX142M07	14 x 2 x 0,75	Orange	25	247	776
11200CGX142M10	14 x 2 x 1	Orange	26,6	317	895
11200CGX142M15	14 x 2 x 1,5	Orange	30,3	457	1173
11200CGX142M25	14 x 2 x 2,5	Orange	33,5	732	1565
11200CGX152M05	15 x 2 x 0,5	Orange	24,8	188	740
11200CGX152M07	15 x 2 x 0,75	Orange	26,5	263	868
11200CGX152M10	15 x 2 x 1	Orange	28,2	339	1005

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11200CGX152M15	15 x 2 x 1,5	Orange	32,1	489	1317
11200CGX152M25	15 x 2 x 2,5	Orange	35,6	783	1752
11200CGX162M05	16 x 2 x 0,5	Orange	24,8	198	741
11200CGX162M07	16 x 2 x 0,75	Orange	26,5	278	877
11200CGX162M10	16 x 2 x 1	Orange	28,2	358	1019
11200CGX162M15	16 x 2 x 1,5	Orange	32,1	518	1337
11200CGX162M25	16 x 2 x 2,5	Orange	35,6	831	1783
11200CGX192M05	19 x 2 x 0,5	Orange	26,4	229	849
11200CGX192M07	19 x 2 x 0,75	Orange	28,3	324	1012
11200CGX192M10	19 x 2 x 1	Orange	30,2	418	1176
11200CGX192M15	19 x 2 x 1,5	Orange	34,3	608	1545
11200CGX192M25	19 x 2 x 2,5	Orange	38	979	2074
11200CGX242M05	24 x 2 x 0,5	Orange	30,3	285	1143
11200CGX242M07	24 x 2 x 0,75	Orange	32,5	404	1349
11200CGX242M10	24 x 2 x 1	Orange	34,6	523	1557
11200CGX242M15	24 x 2 x 1,5	Orange	39,5	762	2035
11200CGX242M25	24 x 2 x 2,5	Orange	43,9	1230	2704
11200CGX272M05	27 x 2 x 0,5	Orange	31,4	315	1216
11200CGX272M07	27 x 2 x 0,75	Orange	33,7	449	1447
11200CGX272M10	27 x 2 x 1	Orange	36,0	583	1679
11200CGX272M15	27 x 2 x 1,5	Orange	41	851	2211
11200CGX272M25	27 x 2 x 2,5	Orange	45,6	1377	2959
11200CGX302M05	30 x 2 x 0,5	Orange	32,6	346	1305
11200CGX302M07	30 x 2 x 0,75	Orange	34,9	495	1557
11200CGX302M10	30 x 2 x 1	Orange	37,3	643	1810
11200CGX302M15	30 x 2 x 1,5	Orange	42,6	940	2400
11200CGX302M25	30 x 2 x 2,5	Orange	47,3	1524	3222
11200CGX372M05	37 x 2 x 0,5	Orange	35,7	418	1583
11200CGX372M07	37 x 2 x 0,75	Orange	38,3	600	1888
11200CGX372M10	37 x 2 x 1	Orange	40,8	783	2197
11200CGX372M15	37 x 2 x 1,5	Orange	46,7	1148	2923
11200CGX372M25	37 x 2 x 2,5	Orange	51,8	1867	3925
11200CGX013M05	1 x 3 x 0,5	Orange	9,6	31	126
11200CGX013M07	1 x 3 x 0,75	Orange	10,1	39	140
11200CGX013M10	1 x 3 x 1	Orange	10,5	47	155
11200CGX013M15	1 x 3 x 1,5	Orange	11,5	63	188
11200CGX013M25	1 x 3 x 2,5	Orange	12,3	94	232
11200CGX023M05	2 x 3 x 0,5	Orange	13,4	53	218
11200CGX023M07	2 x 3 x 0,75	Orange	14,2	69	252
11200CGX023M10	2 x 3 x 1	Orange	15,1	85	286
11200CGX023M15	2 x 3 x 1,5	Orange	16,9	117	359
11200CGX023M25	2 x 3 x 2,5	Orange	18,5	177	456
11200CGX033M05	3 x 3 x 0,5	Orange	14,2	69	245
11200CGX033M07	3 x 3 x 0,75	Orange	15,1	92	286
11200CGX033M10	3 x 3 x 1	Orange	15,9	115	323
11200CGX033M15	3 x 3 x 1,5	Orange	18	162	418
11200CGX033M25	3 x 3 x 2,5	Orange	19,7	252	544
11200CGX043M05	4 x 3 x 0,5	Orange	15,8	86	312
11200CGX043M07	4 x 3 x 0,75	Orange	16,7	116	361
11200CGX043M10	4 x 3 x 1	Orange	17,7	147	416
11200CGX043M15	4 x 3 x 1,5	Orange	19,9	208	539
11200CGX043M25	4 x 3 x 2,5	Orange	21,9	327	709
11200CGX053M05	5 x 3 x 0,5	Orange	17	103	365
11200CGX053M07	5 x 3 x 0,75	Orange	18,1	141	431
11200CGX053M10	5 x 3 x 1	Orange	19,2	178	494
11200CGX053M15	5 x 3 x 1,5	Orange	21,6	255	648
11200CGX053M25	5 x 3 x 2,5	Orange	23,9	403	855
11200CGX063M05	6 x 3 x 0,5	Orange	18,5	120	432

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11200CGX063M07	6 x 3 x 0,75	Orange	19,7	165	508
11200CGX063M10	6 x 3 x 1	Orange	21,0	210	597
11200CGX063M15	6 x 3 x 1,5	Orange	23,7	302	782
11200CGX063M25	6 x 3 x 2,5	Orange	26,2	479	1040
11200CGX073M05	7 x 3 x 0,5	Orange	18,5	134	444
11200CGX073M07	7 x 3 x 0,75	Orange	19,7	187	529
11200CGX073M10	7 x 3 x 1	Orange	21,0	239	619
11200CGX073M15	7 x 3 x 1,5	Orange	23,7	345	815
11200CGX073M25	7 x 3 x 2,5	Orange	26,2	551	1095
11200CGX083M05	8 x 3 x 0,5	Orange	21,6	154	589
11200CGX083M07	8 x 3 x 0,75	Orange	23,0	214	688
11200CGX083M10	8 x 3 x 1	Orange	24,5	274	788
11200CGX083M15	8 x 3 x 1,5	Orange	27,8	395	1023
11200CGX083M25	8 x 3 x 2,5	Orange	30,8	631	1356
11200CGX103M05	10 x 3 x 0,5	Orange	22,6	185	664
11200CGX103M07	10 x 3 x 0,75	Orange	24,1	259	789
11200CGX103M10	10 x 3 x 1	Orange	25,6	334	914
11200CGX103M15	10 x 3 x 1,5	Orange	29,1	484	1206
11200CGX103M25	10 x 3 x 2,5	Orange	32,3	778	1621
11200CGX123M05	12 x 3 x 0,5	Orange	24,8	217	781
11200CGX123M07	12 x 3 x 0,75	Orange	26,4	306	926
11200CGX123M10	12 x 3 x 1	Orange	28,2	395	1079
11200CGX123M15	12 x 3 x 1,5	Orange	32,0	575	1423
11200CGX123M25	12 x 3 x 2,5	Orange	35,4	927	1911
11200CGX143M05	14 x 3 x 0,5	Orange	25,6	248	847
11200CGX143M07	14 x 3 x 0,75	Orange	27,5	352	1019
11200CGX143M10	14 x 3 x 1	Orange	29,3	456	1192
11200CGX143M15	14 x 3 x 1,5	Orange	33,3	664	1580
11200CGX143M25	14 x 3 x 2,5	Orange	36,9	1074	2138
11200CGX153M05	15 x 3 x 0,5	Orange	27,2	265	952
11200CGX153M07	15 x 3 x 0,75	Orange	29,1	376	1130
11200CGX153M10	15 x 3 x 1	Orange	31,0	487	1325
11200CGX153M15	15 x 3 x 1,5	Orange	35,4	711	1769
11200CGX153M25	15 x 3 x 2,5	Orange	39,2	1150	2380
11200CGX163M05	16 x 3 x 0,5	Orange	27,2	279	964
11200CGX163M07	16 x 3 x 0,75	Orange	29,1	398	1152
11200CGX163M10	16 x 3 x 1	Orange	31,0	516	1347
11200CGX163M15	16 x 3 x 1,5	Orange	35,4	754	1802
11200CGX163M25	16 x 3 x 2,5	Orange	39,2	1222	2435
11200CGX193M05	19 x 3 x 0,5	Orange	29,1	325	1114
11200CGX193M07	19 x 3 x 0,75	Orange	31,1	465	1334
11200CGX193M10	19 x 3 x 1	Orange	33,1	606	1563
11200CGX193M15	19 x 3 x 1,5	Orange	37,8	888	2097
11200CGX193M25	19 x 3 x 2,5	Orange	41,9	1442	2842
11200CGX243M05	24 x 3 x 0,5	Orange	33,4	405	1476
11200CGX243M07	24 x 3 x 0,75	Orange	35,8	582	1764
11200CGX243M10	24 x 3 x 1	Orange	38,2	759	2054
11200CGX243M15	24 x 3 x 1,5	Orange	43,6	1115	2730
11200CGX243M25	24 x 3 x 2,5	Orange	48,5	1814	3684
11200CGX014M05	1 x 4 x 0,5	Orange	10,3	37	144
11200CGX014M07	1 x 4 x 0,75	Orange	10,8	48	163
11200CGX014M10	1 x 4 x 1	Orange	11,2	58	181
11200CGX014M15	1 x 4 x 1,5	Orange	12,3	79	222
11200CGX014M25	1 x 4 x 2,5	Orange	13,3	120	279

Other dimensions and colors available on request.