

GAALSHIP® HF 250 OS FR

Pairs/triples twisted cables for telecommunication and instrumentation, overall screened, fire resistant



ELETTROTEK KABEL® GAALSHIP® HF 250 OS FR



Applications:

Fire resistant, instrumentation cables for fixed electrical installations aboard ships, screened against electromagnetic interferences, complying with IEC 60092-352.

Construction:

Conductor:	Plain annealed copper or Tinned annealed copper conductor Cl. 2, acc. to IEC 60228, DIN VDE 0295
Insulation:	MICA glass tape + GAALTHERM® 595
Stranding:	Core laid-up together in pairs/triples
Cores color:	Pair: black- light blue Triple: black- light blue - brown
Overall screen:	Aluminium/polyester tape with tinned annealed copper stranded drain wire
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, cross nominal section sqmm, 150/250 V, part n°, IEC 60092-376, IEC 60332-3-22, IEC 60331, 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 -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 - Germanischer Lloyd)
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)



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 IEC 60092-350 art. 8.9 and Annex E (-40°C)
 Cold bend impact at low temperatures
 acc. to IEC 60092-350 art. 8.9 and Annex E (-35°C)
 On request class 5 conductor acc. to IEC 60228

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Part no.	No. of pairs/triples x cross section n x mm ²	Outer sheath color	Outer diameter ca.mm	Copper weight approx. kg/km	Cable weight approx. kg/km
11050CGX012M05	1 x 2 x 0,5	Orange	8,2	14	87
11050CGX012M07	1 x 2 x 0,75	Orange	8,6	19	99
11050CGX012M10	1 x 2 x 1	Orange	9	24	109
11050CGX012M15	1 x 2 x 1,5	Orange	9,9	34	134
11050CGX012M25	1 x 2 x 2,5	Orange	10,7	53	166
11050CGX022M05	2 x 2 x 0,5	Orange	11,2	24	139
11050CGX022M07	2 x 2 x 0,75	Orange	12	34	165
11050CGX022M10	2 x 2 x 1	Orange	12,8	43	189
11050CGX022M15	2 x 2 x 1,5	Orange	14,4	62	243
11050CGX022M25	2 x 2 x 2,5	Orange	15,8	101	311
11050CGX032M05	3 x 2 x 0,5	Orange	12	34	156
11050CGX032M07	3 x 2 x 0,75	Orange	12,8	48	184
11050CGX032M10	3 x 2 x 1	Orange	13,5	62	208
11050CGX032M15	3 x 2 x 1,5	Orange	15,4	91	272
11050CGX032M25	3 x 2 x 2,5	Orange	16,9	149	357
11050CGX042M05	4 x 2 x 0,5	Orange	13,3	43	201
11050CGX042M07	4 x 2 x 0,75	Orange	14,2	62	237
11050CGX042M10	4 x 2 x 1	Orange	15,1	82	274
11050CGX042M15	4 x 2 x 1,5	Orange	17,2	120	357
11050CGX042M25	4 x 2 x 2,5	Orange	18,9	197	470
11050CGX052M05	5 x 2 x 0,5	Orange	14,4	53	240
11050CGX052M07	5 x 2 x 0,75	Orange	15,5	77	285
11050CGX052M10	5 x 2 x 1	Orange	16,5	101	330
11050CGX052M15	5 x 2 x 1,5	Orange	18,7	149	433
11050CGX052M25	5 x 2 x 2,5	Orange	20,6	245	572
11050CGX062M05	6 x 2 x 0,5	Orange	15,8	62	291
11050CGX062M07	6 x 2 x 0,75	Orange	16,9	91	342
11050CGX062M10	6 x 2 x 1	Orange	18	120	394
11050CGX062M15	6 x 2 x 1,5	Orange	20,5	178	521
11050CGX062M25	6 x 2 x 2,5	Orange	22,7	293	698
11050CGX072M05	7 x 2 x 0,5	Orange	15,8	72	293
11050CGX072M07	7 x 2 x 0,75	Orange	16,9	106	350
11050CGX072M10	7 x 2 x 1	Orange	18	139	408
11050CGX072M15	7 x 2 x 1,5	Orange	20,5	206	540
11050CGX072M25	7 x 2 x 2,5	Orange	22,7	341	729
11050CGX082M05	8 x 2 x 0,5	Orange	18,6	82	411
11050CGX082M07	8 x 2 x 0,75	Orange	19,9	120	478
11050CGX082M10	8 x 2 x 1	Orange	21,2	158	546
11050CGX082M15	8 x 2 x 1,5	Orange	24,2	235	703
11050CGX082M25	8 x 2 x 2,5	Orange	26,8	389	923
11050CGX102M05	10 x 2 x 0,5	Orange	19,5	101	448
11050CGX102M07	10 x 2 x 0,75	Orange	20,8	149	536
11050CGX102M10	10 x 2 x 1	Orange	22,3	197	628
11050CGX102M15	10 x 2 x 1,5	Orange	25,4	293	828
11050CGX102M25	10 x 2 x 2,5	Orange	28,2	485	1114
11050CGX122M05	12 x 2 x 0,5	Orange	21,5	120	535
11050CGX122M07	12 x 2 x 0,75	Orange	23	178	635
11050CGX122M10	12 x 2 x 1	Orange	24,5	235	734
11050CGX122M15	12 x 2 x 1,5	Orange	28	350	977
11050CGX122M25	12 x 2 x 2,5	Orange	31	581	1305
11050CGX142M05	14 x 2 x 0,5	Orange	22,3	139	581
11050CGX142M07	14 x 2 x 0,75	Orange	23,9	206	693
11050CGX142M10	14 x 2 x 1	Orange	25,5	274	808
11050CGX142M15	14 x 2 x 1,5	Orange	29,1	408	1074
11050CGX142M25	14 x 2 x 2,5	Orange	32,4	677	1454
11050CGX152M05	15 x 2 x 0,5	Orange	23,6	149	659
11050CGX152M07	15 x 2 x 0,75	Orange	25,3	221	783
11050CGX152M10	15 x 2 x 1	Orange	27,1	293	912

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11050CGX152M15	15 x 2 x 1,5	Orange	31	437	1212
11050CGX152M25	15 x 2 x 2,5	Orange	34,4	725	1635
11050CGX162M05	16 x 2 x 0,5	Orange	23,6	158	660
11050CGX162M07	16 x 2 x 0,75	Orange	25,3	235	790
11050CGX162M10	16 x 2 x 1	Orange	27,1	312	926
11050CGX162M15	16 x 2 x 1,5	Orange	31	466	1232
11050CGX162M25	16 x 2 x 2,5	Orange	34,4	773	1666
11050CGX192M05	19 x 2 x 0,5	Orange	25,3	187	763
11050CGX192M07	19 x 2 x 0,75	Orange	27,2	278	919
11050CGX192M10	19 x 2 x 1	Orange	29,1	370	1078
11050CGX192M15	19 x 2 x 1,5	Orange	33,1	552	1432
11050CGX192M25	19 x 2 x 2,5	Orange	36,9	917	1949
11050CGX242M05	24 x 2 x 0,5	Orange	29,1	235	1043
11050CGX242M07	24 x 2 x 0,75	Orange	31,3	350	1241
11050CGX242M10	24 x 2 x 1	Orange	33,5	466	1443
11050CGX242M15	24 x 2 x 1,5	Orange	38,4	696	1904
11050CGX242M25	24 x 2 x 2,5	Orange	42,7	1157	2559
11050CGX272M05	27 x 2 x 0,5	Orange	30,3	264	1113
11050CGX272M07	27 x 2 x 0,75	Orange	32,5	394	1336
11050CGX272M10	27 x 2 x 1	Orange	34,8	523	1560
11050CGX272M15	27 x 2 x 1,5	Orange	39,9	782	2075
11050CGX272M25	27 x 2 x 2,5	Orange	44,4	1301	2808
11050CGX302M05	30 x 2 x 0,5	Orange	31,4	293	1198
11050CGX302M07	30 x 2 x 0,75	Orange	33,8	437	1441
11050CGX302M10	30 x 2 x 1	Orange	36,1	581	1687
11050CGX302M15	30 x 2 x 1,5	Orange	41,5	869	2259
11050CGX302M25	30 x 2 x 2,5	Orange	46,2	1445	3065
11050CGX372M05	37 x 2 x 0,5	Orange	34,6	360	1465
11050CGX372M07	37 x 2 x 0,75	Orange	37,2	538	1763
11050CGX372M10	37 x 2 x 1	Orange	39,7	715	2061
11050CGX372M15	37 x 2 x 1,5	Orange	45,6	1070	2768
11050CGX372M25	37 x 2 x 2,5	Orange	50,7	1781	3754
11050CGX013M05	1 x 3 x 0,5	Orange	8,6	19	98
11050CGX013M07	1 x 3 x 0,75	Orange	9	26	111
11050CGX013M10	1 x 3 x 1	Orange	9,5	34	125
11050CGX013M15	1 x 3 x 1,5	Orange	10,4	48	155
11050CGX013M25	1 x 3 x 2,5	Orange	11,3	77	196
11050CGX023M05	2 x 3 x 0,5	Orange	12,2	34	176
11050CGX023M07	2 x 3 x 0,75	Orange	13,1	48	207
11050CGX023M10	2 x 3 x 1	Orange	13,9	62	237
11050CGX023M15	2 x 3 x 1,5	Orange	15,7	91	305
11050CGX023M25	2 x 3 x 2,5	Orange	17,3	149	397
11050CGX033M05	3 x 3 x 0,5	Orange	13,1	48	199
11050CGX033M07	3 x 3 x 0,75	Orange	14	70	238
11050CGX033M10	3 x 3 x 1	Orange	14,8	91	272
11050CGX033M15	3 x 3 x 1,5	Orange	16,8	134	360
11050CGX033M25	3 x 3 x 2,5	Orange	18,6	221	484
11050CGX043M05	4 x 3 x 0,5	Orange	14,6	62	258
11050CGX043M07	4 x 3 x 0,75	Orange	15,6	91	307
11050CGX043M10	4 x 3 x 1	Orange	16,6	120	358
11050CGX043M15	4 x 3 x 1,5	Orange	18,8	178	475
11050CGX043M25	4 x 3 x 2,5	Orange	20,8	293	638
11050CGX053M05	5 x 3 x 0,5	Orange	15,8	77	311
11050CGX053M07	5 x 3 x 0,75	Orange	16,9	113	372
11050CGX053M10	5 x 3 x 1	Orange	18	149	433
11050CGX053M15	5 x 3 x 1,5	Orange	20,5	221	578
11050CGX053M25	5 x 3 x 2,5	Orange	22,7	365	778
11050CGX063M05	6 x 3 x 0,5	Orange	17,3	91	373

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11050CGX063M07	6 x 3 x 0,75	Orange	18,6	134	448
11050CGX063M10	6 x 3 x 1	Orange	19,9	178	530
11050CGX063M15	6 x 3 x 1,5	Orange	22,6	264	705
11050CGX063M25	6 x 3 x 2,5	Orange	25	437	955
11050CGX073M05	7 x 3 x 0,5	Orange	17,3	106	385
11050CGX073M07	7 x 3 x 0,75	Orange	18,6	156	470
11050CGX073M10	7 x 3 x 1	Orange	19,9	206	551
11050CGX073M15	7 x 3 x 1,5	Orange	22,6	307	738
11050CGX073M25	7 x 3 x 2,5	Orange	25	509	1009
11050CGX083M05	8 x 3 x 0,5	Orange	20,4	120	519
11050CGX083M07	8 x 3 x 0,75	Orange	21,9	178	614
11050CGX083M10	8 x 3 x 1	Orange	23,4	235	714
11050CGX083M15	8 x 3 x 1,5	Orange	26,6	350	932
11050CGX083M25	8 x 3 x 2,5	Orange	29,6	581	1255
11050CGX103M05	10 x 3 x 0,5	Orange	21,5	149	591
11050CGX103M07	10 x 3 x 0,75	Orange	23	221	711
11050CGX103M10	10 x 3 x 1	Orange	24,6	293	836
11050CGX103M15	10 x 3 x 1,5	Orange	28	437	1111
11050CGX103M25	10 x 3 x 2,5	Orange	31,1	725	1515
11050CGX123M05	12 x 3 x 0,5	Orange	23,6	178	700
11050CGX123M07	12 x 3 x 0,75	Orange	25,3	264	840
11050CGX123M10	12 x 3 x 1	Orange	27	350	987
11050CGX123M15	12 x 3 x 1,5	Orange	30,8	523	1318
11050CGX123M25	12 x 3 x 2,5	Orange	34,3	869	1794
11050CGX143M05	14 x 3 x 0,5	Orange	24,6	206	768
11050CGX143M07	14 x 3 x 0,75	Orange	26,4	307	928
11050CGX143M10	14 x 3 x 1	Orange	28,2	408	1095
11050CGX143M15	14 x 3 x 1,5	Orange	32,2	610	1471
11050CGX143M25	14 x 3 x 2,5	Orange	35,8	1013	2016
11050CGX153M05	15 x 3 x 0,5	Orange	26,1	221	863
11050CGX153M07	15 x 3 x 0,75	Orange	27,9	329	1035
11050CGX153M10	15 x 3 x 1	Orange	29,9	437	1223
11050CGX153M15	15 x 3 x 1,5	Orange	34,2	653	1652
11050CGX153M25	15 x 3 x 2,5	Orange	38	1085	2251
11050CGX163M05	16 x 3 x 0,5	Orange	26,1	235	875
11050CGX163M07	16 x 3 x 0,75	Orange	27,9	350	1056
11050CGX163M10	16 x 3 x 1	Orange	29,9	466	1246
11050CGX163M15	16 x 3 x 1,5	Orange	34,2	696	1685
11050CGX163M25	16 x 3 x 2,5	Orange	38	1157	2305
11050CGX193M05	19 x 3 x 0,5	Orange	28	278	1019
11050CGX193M07	19 x 3 x 0,75	Orange	29,9	415	1232
11050CGX193M10	19 x 3 x 1	Orange	32	552	1454
11050CGX193M15	19 x 3 x 1,5	Orange	36,7	826	1972
11050CGX193M25	19 x 3 x 2,5	Orange	40,7	1373	2704
11050CGX243M05	24 x 3 x 0,5	Orange	32,2	350	1366
11050CGX243M07	24 x 3 x 0,75	Orange	34,6	523	1646
11050CGX243M10	24 x 3 x 1	Orange	37	696	1928
11050CGX243M15	24 x 3 x 1,5	Orange	42,5	1042	2585
11050CGX243M25	24 x 3 x 2,5	Orange	47,3	1733	3524
11050CGX014M05	1 x 4 x 0,5	Orange	9,2	24	115
11050CGX014M07	1 x 4 x 0,75	Orange	9,7	34	132
11050CGX014M10	1 x 4 x 1	Orange	10,2	43	148
11050CGX014M15	1 x 4 x 1,5	Orange	11,3	62	186
11050CGX014M25	1 x 4 x 2,5	Orange	12,2	101	240

Other dimensions and colors available on request.