

GAALSHIP® HF 250 OSA FR

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



ELETTROTEK KABEL® GAALSHIP® HF 250 OSA 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
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
Armour:	Plain or tinned annealed copper wires braid acc. to IEC 60092-350
Outer sheath:	Halogen free thermoplastic compound SHF1 acc. to IEC 60092-360, thickness acc. to IEC 60092-376
Marking:	ELETTROTEK KABEL® GAALSHIP® HF 250 OSA 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
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 - 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 60332-3-22 + IEC 60332-1-2



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
11090CGX012M05	1 x 2 x 0,5	Orange	9,1	45	125
11090CGX012M07	1 x 2 x 0,75	Orange	9,5	51	138
11090CGX012M10	1 x 2 x 1	Orange	9,9	60	152
11090CGX012M15	1 x 2 x 1,5	Orange	10,8	74	181
11090CGX012M25	1 x 2 x 2,5	Orange	11,6	98	218
11090CGX022M05	2 x 2 x 0,5	Orange	12,2	72	197
11090CGX022M07	2 x 2 x 0,75	Orange	12,9	87	228
11090CGX022M10	2 x 2 x 1	Orange	13,6	97	250
11090CGX022M15	2 x 2 x 1,5	Orange	15,7	155	350
11090CGX022M25	2 x 2 x 2,5	Orange	17,2	207	432
11090CGX032M05	3 x 2 x 0,5	Orange	12,9	87	220
11090CGX032M07	3 x 2 x 0,75	Orange	13,7	101	244
11090CGX032M10	3 x 2 x 1	Orange	14,9	155	315
11090CGX032M15	3 x 2 x 1,5	Orange	16,7	192	388
11090CGX032M25	3 x 2 x 2,5	Orange	18,3	265	488
11090CGX042M05	4 x 2 x 0,5	Orange	14,3	99	268
11090CGX042M07	4 x 2 x 0,75	Orange	15,6	156	346
11090CGX042M10	4 x 2 x 1	Orange	16,5	181	389
11090CGX042M15	4 x 2 x 1,5	Orange	18,5	236	490
11090CGX042M25	4 x 2 x 2,5	Orange	20,4	322	617
11090CGX052M05	5 x 2 x 0,5	Orange	15,8	149	351
11090CGX052M07	5 x 2 x 0,75	Orange	16,8	178	401
11090CGX052M10	5 x 2 x 1	Orange	17,8	216	461
11090CGX052M15	5 x 2 x 1,5	Orange	20,1	275	576
11090CGX052M25	5 x 2 x 2,5	Orange	22	387	732
11090CGX062M05	6 x 2 x 0,5	Orange	17,2	169	413
11090CGX062M07	6 x 2 x 0,75	Orange	18,3	210	477
11090CGX062M10	6 x 2 x 1	Orange	19,4	243	533
11090CGX062M15	6 x 2 x 1,5	Orange	21,9	319	680
11090CGX062M25	6 x 2 x 2,5	Orange	24,1	457	881
11090CGX072M05	7 x 2 x 0,5	Orange	17,2	178	414
11090CGX072M07	7 x 2 x 0,75	Orange	18,3	222	482
11090CGX072M10	7 x 2 x 1	Orange	19,4	263	548
11090CGX072M15	7 x 2 x 1,5	Orange	21,9	352	704
11090CGX072M25	7 x 2 x 2,5	Orange	24,1	502	909
11090CGX082M05	8 x 2 x 0,5	Orange	20	207	553
11090CGX082M07	8 x 2 x 0,75	Orange	21,3	261	637
11090CGX082M10	8 x 2 x 1	Orange	22,6	303	710
11090CGX082M15	8 x 2 x 1,5	Orange	25,5	397	885
11090CGX082M25	8 x 2 x 2,5	Orange	28,3	580	1143
11090CGX102M05	10 x 2 x 0,5	Orange	20,8	239	604
11090CGX102M07	10 x 2 x 0,75	Orange	22,3	293	703
11090CGX102M10	10 x 2 x 1	Orange	23,7	357	807
11090CGX102M15	10 x 2 x 1,5	Orange	26,8	465	1021
11090CGX102M25	10 x 2 x 2,5	Orange	29,6	678	1330
11090CGX122M05	12 x 2 x 0,5	Orange	22,8	265	699
11090CGX122M07	12 x 2 x 0,75	Orange	24,3	331	808
11090CGX122M10	12 x 2 x 1	Orange	25,9	406	933
11090CGX122M15	12 x 2 x 1,5	Orange	29,4	545	1196
11090CGX122M25	12 x 2 x 2,5	Orange	32,5	797	1554
11090CGX142M05	14 x 2 x 0,5	Orange	23,7	292	753
11090CGX142M07	14 x 2 x 0,75	Orange	25,3	372	880
11090CGX142M10	14 x 2 x 1	Orange	27	446	1007
11090CGX142M15	14 x 2 x 1,5	Orange	30,6	619	1316
11090CGX142M25	14 x 2 x 2,5	Orange	33,8	901	1704
11090CGX152M05	15 x 2 x 0,5	Orange	25	314	844
11090CGX152M07	15 x 2 x 0,75	Orange	26,7	393	975
11090CGX152M10	15 x 2 x 1	Orange	28,5	487	1128

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11090CGX152M15	15 x 2 x 1,5	Orange	32,3	653	1453
11090CGX152M25	15 x 2 x 2,5	Orange	35,8	975	1912
11090CGX162M05	16 x 2 x 0,5	Orange	25	324	846
11090CGX162M07	16 x 2 x 0,75	Orange	26,7	408	984
11090CGX162M10	16 x 2 x 1	Orange	28,5	497	1133
11090CGX162M15	16 x 2 x 1,5	Orange	32,3	675	1465
11090CGX162M25	16 x 2 x 2,5	Orange	35,8	1017	1937
11090CGX192M05	19 x 2 x 0,5	Orange	26,7	362	959
11090CGX192M07	19 x 2 x 0,75	Orange	28,6	472	1136
11090CGX192M10	19 x 2 x 1	Orange	30,4	576	1308
11090CGX192M15	19 x 2 x 1,5	Orange	34,6	774	1689
11090CGX192M25	19 x 2 x 2,5	Orange	38,7	1250	2316
11090CGX242M05	24 x 2 x 0,5	Orange	30,6	432	1270
11090CGX242M07	24 x 2 x 0,75	Orange	32,7	567	1483
11090CGX242M10	24 x 2 x 1	Orange	34,9	707	1710
11090CGX242M15	24 x 2 x 1,5	Orange	40,2	1068	2319
11090CGX242M25	24 x 2 x 2,5	Orange	44,5	1557	2996
11090CGX272M05	27 x 2 x 0,5	Orange	31,7	476	1356
11090CGX272M07	27 x 2 x 0,75	Orange	33,9	618	1585
11090CGX272M10	27 x 2 x 1	Orange	36,2	777	1841
11090CGX272M15	27 x 2 x 1,5	Orange	41,7	1163	2500
11090CGX272M25	27 x 2 x 2,5	Orange	46,3	1740	3296
11090CGX302M05	30 x 2 x 0,5	Orange	32,9	506	1444
11090CGX302M07	30 x 2 x 0,75	Orange	35,3	680	1719
11090CGX302M10	30 x 2 x 1	Orange	38	913	2060
11090CGX302M15	30 x 2 x 1,5	Orange	43,3	1255	2681
11090CGX302M25	30 x 2 x 2,5	Orange	48	1892	3552
11090CGX372M05	37 x 2 x 0,5	Orange	36	604	1737
11090CGX372M07	37 x 2 x 0,75	Orange	39	871	2139
11090CGX372M10	37 x 2 x 1	Orange	41,6	1095	2487
11090CGX372M15	37 x 2 x 1,5	Orange	47,4	1511	3249
11090CGX372M25	37 x 2 x 2,5	Orange	52,6	2247	4277
11090CGX013M05	1 x 3 x 0,5	Orange	9,5	51	137
11090CGX013M07	1 x 3 x 0,75	Orange	9,9	60	152
11090CGX013M10	1 x 3 x 1	Orange	10,3	72	171
11090CGX013M15	1 x 3 x 1,5	Orange	11,3	88	202
11090CGX013M25	1 x 3 x 2,5	Orange	12,2	125	252
11090CGX023M05	2 x 3 x 0,5	Orange	13,2	88	240
11090CGX023M07	2 x 3 x 0,75	Orange	14,1	103	273
11090CGX023M10	2 x 3 x 1	Orange	15,3	158	347
11090CGX023M15	2 x 3 x 1,5	Orange	17,1	197	426
11090CGX023M25	2 x 3 x 2,5	Orange	18,8	269	538
11090CGX033M05	3 x 3 x 0,5	Orange	14,1	104	266
11090CGX033M07	3 x 3 x 0,75	Orange	15,4	159	341
11090CGX033M10	3 x 3 x 1	Orange	16,3	189	388
11090CGX033M15	3 x 3 x 1,5	Orange	18,2	252	493
11090CGX033M25	3 x 3 x 2,5	Orange	20	346	626
11090CGX043M05	4 x 3 x 0,5	Orange	16	155	370
11090CGX043M07	4 x 3 x 0,75	Orange	17	192	428
11090CGX043M10	4 x 3 x 1	Orange	18	235	494
11090CGX043M15	4 x 3 x 1,5	Orange	20,3	302	622
11090CGX043M25	4 x 3 x 2,5	Orange	22,2	435	799
11090CGX053M05	5 x 3 x 0,5	Orange	17,2	183	432
11090CGX053M07	5 x 3 x 0,75	Orange	18,3	229	504
11090CGX053M10	5 x 3 x 1	Orange	19,4	270	570
11090CGX053M15	5 x 3 x 1,5	Orange	21,9	364	739
11090CGX053M25	5 x 3 x 2,5	Orange	24,1	529	961
11090CGX063M05	6 x 3 x 0,5	Orange	18,8	207	509

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11090CGX063M07	6 x 3 x 0,75	Orange	20	259	590
11090CGX063M10	6 x 3 x 1	Orange	21,2	316	685
11090CGX063M15	6 x 3 x 1,5	Orange	24	426	886
11090CGX063M25	6 x 3 x 2,5	Orange	26,4	606	1145
11090CGX073M05	7 x 3 x 0,5	Orange	18,8	222	522
11090CGX073M07	7 x 3 x 0,75	Orange	20,0	280	611
11090CGX073M10	7 x 3 x 1	Orange	21,2	345	708
11090CGX073M15	7 x 3 x 1,5	Orange	24	468	918
11090CGX073M25	7 x 3 x 2,5	Orange	26,4	678	1199
11090CGX083M05	8 x 3 x 0,5	Orange	21,8	264	681
11090CGX083M07	8 x 3 x 0,75	Orange	23,2	323	778
11090CGX083M10	8 x 3 x 1	Orange	24,8	400	899
11090CGX083M15	8 x 3 x 1,5	Orange	28	542	1146
11090CGX083M25	8 x 3 x 2,5	Orange	31	796	1494
11090CGX103M05	10 x 3 x 0,5	Orange	22,8	294	754
11090CGX103M07	10 x 3 x 0,75	Orange	24,3	386	895
11090CGX103M10	10 x 3 x 1	Orange	26	464	1027
11090CGX103M15	10 x 3 x 1,5	Orange	29,5	632	1336
11090CGX103M25	10 x 3 x 2,5	Orange	32,5	941	1756
11090CGX123M05	12 x 3 x 0,5	Orange	25	343	886
11090CGX123M07	12 x 3 x 0,75	Orange	26,7	436	1034
11090CGX123M10	12 x 3 x 1	Orange	28,4	538	1198
11090CGX123M15	12 x 3 x 1,5	Orange	32,3	739	1567
11090CGX123M25	12 x 3 x 2,5	Orange	35,7	1119	2080
11090CGX143M05	14 x 3 x 0,5	Orange	26	375	958
11090CGX143M07	14 x 3 x 0,75	Orange	27,7	494	1137
11090CGX143M10	14 x 3 x 1	Orange	29,6	604	1314
11090CGX143M15	14 x 3 x 1,5	Orange	33,6	830	1716
11090CGX143M25	14 x 3 x 2,5	Orange	37,7	1344	2388
11090CGX153M05	15 x 3 x 0,5	Orange	27,4	398	1061
11090CGX153M07	15 x 3 x 0,75	Orange	29,4	524	1260
11090CGX153M10	15 x 3 x 1	Orange	31,2	647	1457
11090CGX153M15	15 x 3 x 1,5	Orange	35,6	897	1923
11090CGX153M25	15 x 3 x 2,5	Orange	39,8	1457	2656
11090CGX163M05	16 x 3 x 0,5	Orange	27,4	420	1081
11090CGX163M07	16 x 3 x 0,75	Orange	29,4	546	1282
11090CGX163M10	16 x 3 x 1	Orange	31,2	676	1479
11090CGX163M15	16 x 3 x 1,5	Orange	35,6	940	1956
11090CGX163M25	16 x 3 x 2,5	Orange	39,8	1529	2711
11090CGX193M05	19 x 3 x 0,5	Orange	29,3	464	1228
11090CGX193M07	19 x 3 x 0,75	Orange	31,4	626	1476
11090CGX193M10	19 x 3 x 1	Orange	33,5	769	1705
11090CGX193M15	19 x 3 x 1,5	Orange	38,5	1163	2343
11090CGX193M25	19 x 3 x 2,5	Orange	42,6	1768	3146
11090CGX243M05	24 x 3 x 0,5	Orange	33,6	569	1611
11090CGX243M07	24 x 3 x 0,75	Orange	36	768	1918
11090CGX243M10	24 x 3 x 1	Orange	38,9	1035	2310
11090CGX243M15	24 x 3 x 1,5	Orange	44,3	1437	3017
11090CGX243M25	24 x 3 x 2,5	Orange	49,1	2192	4023
11090CGX014M05	1 x 4 x 0,5	Orange	10,1	60	158
11090CGX014M07	1 x 4 x 0,75	Orange	10,6	73	178
11090CGX014M10	1 x 4 x 1	Orange	11,1	84	197
11090CGX014M15	1 x 4 x 1,5	Orange	12,1	110	242
11090CGX014M25	1 x 4 x 2,5	Orange	13,1	155	302

Other dimensions and colors available on request.