

GAALSHIP® HF 250 ISOSA

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOSA



Applications:

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:	GAALTHERM® 595
Cores color:	Pair: black- light blue Triple: black- light blue - brown
Stranding:	core laid-up together in pairs/triples
Individual screen:	Aluminium/polyester tape with tinned annealed copper stranded drain wire
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 ISOSA, cross nominal section sqmm, 150/250 V, part n°, IEC 60092-376, IEC 60332-3-22, 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:



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
11140CGX022M05	2 x 2 x 0,5	Orange	11,6	79	193
11140CGX022M07	2 x 2 x 0,75	Orange	12,3	91	215
11140CGX022M10	2 x 2 x 1	Orange	13,1	106	247
11140CGX022M15	2 x 2 x 1,5	Orange	15,3	165	344
11140CGX022M25	2 x 2 x 2,5	Orange	16,9	214	422
11140CGX032M05	3 x 2 x 0,5	Orange	12,2	96	214
11140CGX032M07	3 x 2 x 0,75	Orange	13,1	116	247
11140CGX032M10	3 x 2 x 1	Orange	14,4	164	312
11140CGX032M15	3 x 2 x 1,5	Orange	16,3	203	387
11140CGX032M25	3 x 2 x 2,5	Orange	17,9	278	489
11140CGX042M05	4 x 2 x 0,5	Orange	13,6	116	270
11140CGX042M07	4 x 2 x 0,75	Orange	15,0	174	348
11140CGX042M10	4 x 2 x 1	Orange	15,9	197	388
11140CGX042M15	4 x 2 x 1,5	Orange	18,1	255	493
11140CGX042M25	4 x 2 x 2,5	Orange	19,9	337	610
11140CGX052M05	5 x 2 x 0,5	Orange	15	169	347
11140CGX052M07	5 x 2 x 0,75	Orange	16	197	394
11140CGX052M10	5 x 2 x 1	Orange	17,1	228	447
11140CGX052M15	5 x 2 x 1,5	Orange	19,4	294	568
11140CGX052M25	5 x 2 x 2,5	Orange	21,6	408	729
11140CGX062M05	6 x 2 x 0,5	Orange	16,3	188	403
11140CGX062M07	6 x 2 x 0,75	Orange	17,5	226	467
11140CGX062M10	6 x 2 x 1	Orange	18,7	269	537
11140CGX062M15	6 x 2 x 1,5	Orange	21,3	346	683
11140CGX062M25	6 x 2 x 2,5	Orange	23,6	474	863
11140CGX072M05	7 x 2 x 0,5	Orange	16,3	203	415
11140CGX072M07	7 x 2 x 0,75	Orange	17,5	254	490
11140CGX072M10	7 x 2 x 1	Orange	18,7	288	548
11140CGX072M15	7 x 2 x 1,5	Orange	21,3	378	703
11140CGX072M25	7 x 2 x 2,5	Orange	23,6	527	907
11140CGX082M05	8 x 2 x 0,5	Orange	18,9	237	538
11140CGX082M07	8 x 2 x 0,75	Orange	20,3	285	615
11140CGX082M10	8 x 2 x 1	Orange	21,6	340	711
11140CGX082M15	8 x 2 x 1,5	Orange	24,8	439	895
11140CGX082M25	8 x 2 x 2,5	Orange	27,6	614	1137
11140CGX102M05	10 x 2 x 0,5	Orange	19,7	270	592
11140CGX102M07	10 x 2 x 0,75	Orange	21,2	335	698
11140CGX102M10	10 x 2 x 1	Orange	22,7	390	793
11140CGX102M15	10 x 2 x 1,5	Orange	26	510	1020
11140CGX102M25	10 x 2 x 2,5	Orange	28,9	721	1316
11140CGX122M05	12 x 2 x 0,5	Orange	21,6	316	700
11140CGX122M07	12 x 2 x 0,75	Orange	23,2	380	806
11140CGX122M10	12 x 2 x 1	Orange	24,8	454	928
11140CGX122M15	12 x 2 x 1,5	Orange	28,5	599	1194
11140CGX122M25	12 x 2 x 2,5	Orange	31,7	850	1548
11140CGX142M05	14 x 2 x 0,5	Orange	22,4	347	754
11140CGX142M07	14 x 2 x 0,75	Orange	24	434	886
11140CGX142M10	14 x 2 x 1	Orange	25,8	509	1012
11140CGX142M15	14 x 2 x 1,5	Orange	29,6	668	1303
11140CGX142M25	14 x 2 x 2,5	Orange	33,1	961	1706
11140CGX152M05	15 x 2 x 0,5	Orange	23,6	371	833
11140CGX152M07	15 x 2 x 0,75	Orange	25,4	459	973
11140CGX152M10	15 x 2 x 1	Orange	27,2	547	1123
11140CGX152M15	15 x 2 x 1,5	Orange	31,3	724	1453
11140CGX152M25	15 x 2 x 2,5	Orange	34,9	1040	1892
11140CGX162M05	16 x 2 x 0,5	Orange	23,6	395	854
11140CGX162M07	16 x 2 x 0,75	Orange	25,4	480	989
11140CGX162M10	16 x 2 x 1	Orange	27,2	565	1133

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11140CGX162M15	16 x 2 x 1,5	Orange	31,3	758	1475
11140CGX162M25	16 x 2 x 2,5	Orange	34,9	1093	1936
11140CGX192M05	19 x 2 x 0,5	Orange	25,2	448	975
11140CGX192M07	19 x 2 x 0,75	Orange	27,1	556	1147
11140CGX192M10	19 x 2 x 1	Orange	29,1	655	1312
11140CGX192M15	19 x 2 x 1,5	Orange	33,5	857	1691
11140CGX192M25	19 x 2 x 2,5	Orange	37,9	1332	2322
11140CGX242M05	24 x 2 x 0,5	Orange	28,7	539	1277
11140CGX242M07	24 x 2 x 0,75	Orange	31	674	1494
11140CGX242M10	24 x 2 x 1	Orange	33,3	801	1704
11140CGX242M15	24 x 2 x 1,5	Orange	39	1157	2301
11140CGX242M25	24 x 2 x 2,5	Orange	43,6	1656	2992
11140CGX272M05	27 x 2 x 0,5	Orange	29,8	590	1358
11140CGX272M07	27 x 2 x 0,75	Orange	32,2	736	1595
11140CGX272M10	27 x 2 x 1	Orange	34,6	896	1847
11140CGX272M15	27 x 2 x 1,5	Orange	40,4	1286	2503
11140CGX272M25	27 x 2 x 2,5	Orange	45,2	1860	3289
11140CGX302M05	30 x 2 x 0,5	Orange	30,9	645	1462
11140CGX302M07	30 x 2 x 0,75	Orange	33,4	804	1718
11140CGX302M10	30 x 2 x 1	Orange	35,8	970	1983
11140CGX302M15	30 x 2 x 1,5	Orange	41,9	1397	2694
11140CGX302M25	30 x 2 x 2,5	Orange	46,8	2029	3552
11140CGX372M05	37 x 2 x 0,5	Orange	33,8	758	1748
11140CGX372M07	37 x 2 x 0,75	Orange	37	1040	2159
11140CGX372M10	37 x 2 x 1	Orange	39,7	1264	2501
11140CGX372M15	37 x 2 x 1,5	Orange	45,9	1677	3259
11140CGX372M25	37 x 2 x 2,5	Orange	51,4	2414	4279
11140CGX023M05	2 x 3 x 0,5	Orange	12,8	97	232
11140CGX023M07	2 x 3 x 0,75	Orange	13,6	112	258
11140CGX023M10	2 x 3 x 1	Orange	14,9	164	331
11140CGX023M15	2 x 3 x 1,5	Orange	16,9	205	415
11140CGX023M25	2 x 3 x 2,5	Orange	18,8	278	534
11140CGX033M05	3 x 3 x 0,5	Orange	13,5	116	258
11140CGX033M07	3 x 3 x 0,75	Orange	14,9	176	338
11140CGX033M10	3 x 3 x 1	Orange	15,8	202	380
11140CGX033M15	3 x 3 x 1,5	Orange	18	264	487
11140CGX033M25	3 x 3 x 2,5	Orange	20	357	619
11140CGX043M05	4 x 3 x 0,5	Orange	15,4	174	362
11140CGX043M07	4 x 3 x 0,75	Orange	16,5	209	418
11140CGX043M10	4 x 3 x 1	Orange	17,6	245	476
11140CGX043M15	4 x 3 x 1,5	Orange	20	320	609
11140CGX043M25	4 x 3 x 2,5	Orange	22,1	451	790
11140CGX053M05	5 x 3 x 0,5	Orange	16,6	204	422
11140CGX053M07	5 x 3 x 0,75	Orange	17,8	251	496
11140CGX053M10	5 x 3 x 1	Orange	19	293	564
11140CGX053M15	5 x 3 x 1,5	Orange	21,7	388	729
11140CGX053M25	5 x 3 x 2,5	Orange	24	553	954
11140CGX063M05	6 x 3 x 0,5	Orange	18	236	498
11140CGX063M07	6 x 3 x 0,75	Orange	19,4	284	578
11140CGX063M10	6 x 3 x 1	Orange	20,7	345	667
11140CGX063M15	6 x 3 x 1,5	Orange	23,7	453	867
11140CGX063M25	6 x 3 x 2,5	Orange	26,3	649	1138
11140CGX073M05	7 x 3 x 0,5	Orange	18	254	514
11140CGX073M07	7 x 3 x 0,75	Orange	19,4	310	600
11140CGX073M10	7 x 3 x 1	Orange	20,7	378	697
11140CGX073M15	7 x 3 x 1,5	Orange	23,7	501	910
11140CGX073M25	7 x 3 x 2,5	Orange	26,3	726	1204
11140CGX083M05	8 x 3 x 0,5	Orange	21	297	660

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11140CGX083M07	8 x 3 x 0,75	Orange	22,6	359	770
11140CGX083M10	8 x 3 x 1	Orange	24,1	438	886
11140CGX083M15	8 x 3 x 1,5	Orange	27,7	576	1132
11140CGX083M25	8 x 3 x 2,5	Orange	30,9	834	1481
11140CGX103M05	10 x 3 x 0,5	Orange	21,9	339	735
11140CGX103M07	10 x 3 x 0,75	Orange	23,6	429	874
11140CGX103M10	10 x 3 x 1	Orange	25,3	507	1001
11140CGX103M15	10 x 3 x 1,5	Orange	29,1	680	1308
11140CGX103M25	10 x 3 x 2,5	Orange	32,4	989	1739
11140CGX123M05	12 x 3 x 0,5	Orange	24	396	868
11140CGX123M07	12 x 3 x 0,75	Orange	25,9	488	1018
11140CGX123M10	12 x 3 x 1	Orange	27,7	594	1177
11140CGX123M15	12 x 3 x 1,5	Orange	31,9	793	1538
11140CGX123M25	12 x 3 x 2,5	Orange	35,7	1170	2052
11140CGX143M05	14 x 3 x 0,5	Orange	24,9	439	942
11140CGX143M07	14 x 3 x 0,75	Orange	26,8	550	1110
11140CGX143M10	14 x 3 x 1	Orange	28,8	664	1288
11140CGX143M15	14 x 3 x 1,5	Orange	33,2	892	1693
11140CGX143M25	14 x 3 x 2,5	Orange	37,5	1404	2349
11140CGX153M05	15 x 3 x 0,5	Orange	26,3	465	1034
11140CGX153M07	15 x 3 x 0,75	Orange	28,4	585	1228
11140CGX153M10	15 x 3 x 1	Orange	30,5	717	1432
11140CGX153M15	15 x 3 x 1,5	Orange	35,1	968	1879
11140CGX153M25	15 x 3 x 2,5	Orange	39,7	1525	2615
11140CGX163M05	16 x 3 x 0,5	Orange	26,3	486	1053
11140CGX163M07	16 x 3 x 0,75	Orange	28,4	612	1251
11140CGX163M10	16 x 3 x 1	Orange	30,5	753	1465
11140CGX163M15	16 x 3 x 1,5	Orange	35,1	1019	1925
11140CGX163M25	16 x 3 x 2,5	Orange	39,7	1605	2683
11140CGX193M05	19 x 3 x 0,5	Orange	28,1	560	1220
11140CGX193M07	19 x 3 x 0,75	Orange	30,4	717	1457
11140CGX193M10	19 x 3 x 1	Orange	32,6	856	1678
11140CGX193M15	19 x 3 x 1,5	Orange	38,1	1248	2313
11140CGX193M25	19 x 3 x 2,5	Orange	42,5	1845	3101
11140CGX243M05	24 x 3 x 0,5	Orange	32,2	678	1582
11140CGX243M07	24 x 3 x 0,75	Orange	34,8	882	1889
11140CGX243M10	24 x 3 x 1	Orange	37,9	1148	2273
11140CGX243M15	24 x 3 x 1,5	Orange	43,8	1541	2969
11140CGX243M25	24 x 3 x 2,5	Orange	49	2292	3962

Other dimensions and colors available on request.