

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)
RMRS (Russian Maritime Register 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

GAALSHIP® MARINE CABLES

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Part no.	No. of pairs/triples x cross section n x mm ²	Outer sheath color	Outer diameter ca.mm			Cable weight approx. kg/km	Max. resistance of conductors at 20°C (Ohm/km)	Current rating in open air at 45°C (A)	Short circuit rating I sec. (kA)
			Min.	Nom.	Max.				
11050CGX012M07	1 x 2 x 0,75	Orange	6	7,5	9	69	26,0	13	0,11
11050CGX022M07	2 x 2 x 0,75	Orange	7,2	8,7	10,2	93	26,0	11	0,11
11050CGX032M07	3 x 2 x 0,75	Orange	10,3	11,8	13,3	138	26,0	8	0,11
11050CGX042M07	4 x 2 x 0,75	Orange	11,3	12,8	14,3	171	26,0	7	0,11
11050CGX052M07	5 x 2 x 0,75	Orange	12,7	14,2	15,7	216	26,0	7	0,11
11050CGX062M07	6 x 2 x 0,75	Orange	13,9	15,4	16,9	261	26,0	7	0,11
11050CGX072M07	7 x 2 x 0,75	Orange	13,4	15,4	16,9	252	26,0	7	0,11
11050CGX082M07	8 x 2 x 0,75	Orange	16,2	18,2	19,7	306	26,0	7	0,11
11050CGX102M07	10 x 2 x 0,75	Orange	17	19	20,5	375	26,0	7	0,11
11050CGX122M07	12 x 2 x 0,75	Orange	18,1	20,6	23,1	412	26,0	7	0,11
11050CGX142M07	14 x 2 x 0,75	Orange	19,2	21,7	24,2	467	26,0	6	0,11
11050CGX162M07	16 x 2 x 0,75	Orange	20,6	23,1	25,6	539	26,0	6	0,11
11050CGX192M07	19 x 2 x 0,75	Orange	21,8	24,3	26,8	598	26,0	6	0,11
11050CGX242M07	24 x 2 x 0,75	Orange	25,5	28,0	30,5	786	26,0	5	0,11
11050CGX272M07	27 x 2 x 0,75	Orange	27	29,5	32	867	26,0	5	0,11
11050CGX372M07	37 x 2 x 0,75	Orange	30,9	33,4	35,9	1110	26,0	5	0,11
11050CGX012M10	1 x 2 x 1	Orange	6,3	7,8	9,3	80	19,2	15	0,14
11050CGX022M10	2 x 2 x 1	Orange	7,7	9,2	10,7	108	19,2	13	0,14
11050CGX032M10	3 x 2 x 1	Orange	10,9	12,4	13,9	161	19,2	10	0,14
11050CGX042M10	4 x 2 x 1	Orange	12,1	13,6	15,1	201	19,2	9	0,14
11050CGX052M10	5 x 2 x 1	Orange	13,5	15	16,5	254	19,2	9	0,14
11050CGX062M10	6 x 2 x 1	Orange	14,8	16,3	17,8	307	19,2	9	0,14
11050CGX072M10	7 x 2 x 1	Orange	14,3	16,3	17,8	299	19,2	9	0,14
11050CGX082M10	8 x 2 x 1	Orange	17,4	19,4	20,9	371	19,2	9	0,14
11050CGX102M10	10 x 2 x 1	Orange	18,3	20,3	21,8	455	19,2	9	0,14
11050CGX122M10	12 x 2 x 1	Orange	19,6	22,1	24,6	501	19,2	9	0,14
11050CGX142M10	14 x 2 x 1	Orange	20,7	23,2	25,7	569	19,2	8	0,14
11050CGX162M10	16 x 2 x 1	Orange	22	24,5	27	644	19,2	8	0,14
11050CGX192M10	19 x 2 x 1	Orange	23,5	26	28,5	730	19,2	8	0,14
11050CGX242M10	24 x 2 x 1	Orange	27,2	29,7	32,2	941	19,2	6	0,14
11050CGX272M10	27 x 2 x 1	Orange	29	31,5	34	1056	19,2	6	0,14
11050CGX372M10	37 x 2 x 1	Orange	33,1	35,6	38,1	1366	19,2	6	0,14
11050CGX012M15	1 x 2 x 1,5	Orange	7,5	9	10,5	104	12,8	20	0,21
11050CGX022M15	2 x 2 x 1,5	Orange	8,8	10,3	11,8	139	12,8	16	0,21
11050CGX032M15	3 x 2 x 1,5	Orange	12,8	14,3	15,8	214	12,8	13	0,21
11050CGX042M15	4 x 2 x 1,5	Orange	14,1	15,6	17,1	269	12,8	11	0,21
11050CGX052M15	5 x 2 x 1,5	Orange	15,8	17,3	18,8	341	12,8	11	0,21
11050CGX062M15	6 x 2 x 1,5	Orange	17,3	18,8	20,3	415	12,8	11	0,21
11050CGX072M15	7 x 2 x 1,5	Orange	16,8	18,8	20,3	405	12,8	11	0,21
11050CGX082M15	8 x 2 x 1,5	Orange	20,4	22,4	23,9	498	12,8	11	0,21
11050CGX102M15	10 x 2 x 1,5	Orange	21,4	23,4	24,9	617	12,8	11	0,21
11050CGX122M15	12 x 2 x 1,5	Orange	23	25,5	28	679	12,8	11	0,21
11050CGX142M15	14 x 2 x 1,5	Orange	24,3	26,8	29,3	775	12,8	10	0,21
11050CGX162M15	16 x 2 x 1,5	Orange	26	28,5	31	893	12,8	10	0,21
11050CGX192M15	19 x 2 x 1,5	Orange	27,7	30,2	32,7	1012	12,8	10	0,21
11050CGX242M15	24 x 2 x 1,5	Orange	32,1	34,6	37,1	1304	12,8	8	0,21
11050CGX272M15	27 x 2 x 1,5	Orange	34,2	36,7	39,2	1462	12,8	8	0,21
11050CGX372M15	37 x 2 x 1,5	Orange	38,9	41,4	43,9	1880	12,8	8	0,21

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			Min.	Nom.	Max.				
11050CGX013M07	1 x 3 x 0,75	Orange	6,4	7,9	9,4	74	26,0	11	0,11
11050CGX033M07	3 x 3 x 0,75	Orange	11,6	13,1	14,6	179	26,0	7	0,11
11050CGX043M07	4 x 3 x 0,75	Orange	13	14,5	16	230	26,0	7	0,11
11050CGX073M07	7 x 3 x 0,75	Orange	16	17,5	19,5	347	26,0	7	0,11
11050CGX123M07	12 x 3 x 0,75	Orange	20,8	23,3	25,8	570	26,0	6	0,11
11050CGX013M10	1 x 3 x 1	Orange	6,8	8,3	9,8	87	19,2	13	0,14
11050CGX033M10	3 x 3 x 1	Orange	12,5	14	15,5	217	19,2	9	0,14
11050CGX043M10	4 x 3 x 1	Orange	13,8	15,3	16,8	273	19,2	9	0,14
11050CGX073M10	7 x 3 x 1	Orange	17	18,5	20,5	415	19,2	9	0,14
11050CGX123M10	12 x 3 x 1	Orange	22,5	25	27,5	696	19,2	8	0,14
11050CGX013M15	1 x 3 x 1,5	Orange	8	9,5	11	114	12,8	16	0,21
11050CGX033M15	3 x 3 x 1,5	Orange	14,4	15,9	17,4	283	12,8	11	0,21
11050CGX043M15	4 x 3 x 1,5	Orange	16,2	17,7	19,2	368	12,8	11	0,21
11050CGX073M15	7 x 3 x 1,5	Orange	19,8	21,3	23,3	566	12,8	11	0,21
11050CGX123M15	12 x 3 x 1,5	Orange	26,3	28,8	31,3	950	12,8	10	0,21

Other dimensions and colors available on request.