

# GAALSHIP® HF 250 ISOS

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



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOS



## Applications:

INSTRUMENTATION CABLES FOR FIXED ELECTRICAL INSTALLATIONS ABOARD SHIPS, SCREENED AGAINST ELECTROMAGNETIC INTERFERENCES, COMPLYING WITH IEC 60092-352

## Construction:

<b>CONDUCTOR:</b>	PLAIN ANNEALED COPPER OR TINNED ANNEALED COPPER CONDUCTOR CL. 2, ACC. TO IEC 60228, DIN VDE 0295
<b>INSULATION:</b>	GAALTHERM® 595
<b>CORES COLOR:</b>	PAIR: BLACK- LIGHT BLUE TRIPLE: BLACK- LIGHT BLUE - BROWN
<b>STRANDING:</b>	CORE LAID-UP TOGETHER IN PAIRS/TRIPLES
<b>INDIVIDUAL SCREEN:</b>	ALUMINIUM/POLYESTER TAPE WITH TINNED ANNEALED COPPER STRANDED DRAIN WIRE
<b>OVERALL SCREEN:</b>	ALUMINIUM/POLYESTER TAPE WITH TINNED ANNEALED COPPER STRANDED DRAIN WIRE
<b>OUTER SHEATH:</b>	HALOGEN FREE THERMOPLASTIC COMPOUND SHF1 ACC. TO IEC 60092-360, THICKNESS ACC. TO IEC 60092-376
<b>MARKING:</b>	ELETTROTEK KABEL® GAALSHIP® HF 250 ISOS, CROSS NOMINAL SECTION mm², 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:

<b>NOMINAL VOLTAGE:</b>	U <sub>0</sub> /U 150/250 V
<b>TEMPERATURE RANGE:</b>	-40°C UP TO +90°C
<b>INSTALLATION TEMP.:</b>	-5°C
<b>SHORT CIRCUIT TEMPERATURE:</b>	+250°C
<b>MIN. BENDING RADIUS:</b>	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)  
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 <sup>2</sup>	Outer sheath color	Outer diameter ca.mm	Copper weight approx. kg/km	Cable weight approx. kg/km
11120CGX022M05	2 x 2 x 0,5	ORANGE	10,6	34	139
11120CGX022M07	2 x 2 x 0,75	ORANGE	11,4	43	158
11120CGX022M10	2 x 2 x 1	ORANGE	12,2	53	183
11120CGX022M15	2 x 2 x 1,5	ORANGE	14	72	237
11120CGX022M25	2 x 2 x 2,5	ORANGE	15,5	110	303
11120CGX032M05	3 x 2 x 0,5	ORANGE	11,3	48	156
11120CGX032M07	3 x 2 x 0,75	ORANGE	12,1	62	183
11120CGX032M10	3 x 2 x 1	ORANGE	13,0	77	211
11120CGX032M15	3 x 2 x 1,5	ORANGE	14,8	106	271
11120CGX032M25	3 x 2 x 2,5	ORANGE	16,6	163	358
11120CGX042M05	4 x 2 x 0,5	ORANGE	12,6	62	205
11120CGX042M07	4 x 2 x 0,75	ORANGE	13,6	82	241
11120CGX042M10	4 x 2 x 1	ORANGE	14,5	101	274
11120CGX042M15	4 x 2 x 1,5	ORANGE	16,6	139	356
11120CGX042M25	4 x 2 x 2,5	ORANGE	18,5	216	472
11120CGX052M05	5 x 2 x 0,5	ORANGE	13,6	77	241
11120CGX052M07	5 x 2 x 0,75	ORANGE	14,6	101	283
11120CGX052M10	5 x 2 x 1	ORANGE	15,7	125	329
11120CGX052M15	5 x 2 x 1,5	ORANGE	18,1	173	430
11120CGX052M25	5 x 2 x 2,5	ORANGE	20,2	269	572
11120CGX062M05	6 x 2 x 0,5	ORANGE	14,9	91	288
11120CGX062M07	6 x 2 x 0,75	ORANGE	16	120	342
11120CGX062M10	6 x 2 x 1	ORANGE	17,2	149	396
11120CGX062M15	6 x 2 x 1,5	ORANGE	19,9	207	527
11120CGX062M25	6 x 2 x 2,5	ORANGE	22,2	322	692
11120CGX072M05	7 x 2 x 0,5	ORANGE	14,9	106	300
11120CGX072M07	7 x 2 x 0,75	ORANGE	16,0	139	356
11120CGX072M10	7 x 2 x 1	ORANGE	17,2	173	413
11120CGX072M15	7 x 2 x 1,5	ORANGE	19,9	240	548
11120CGX072M25	7 x 2 x 2,5	ORANGE	22,2	374	735
11120CGX082M05	8 x 2 x 0,5	ORANGE	17,5	120	405
11120CGX082M07	8 x 2 x 0,75	ORANGE	18,9	158	471
11120CGX082M10	8 x 2 x 1	ORANGE	20,3	197	550
11120CGX082M15	8 x 2 x 1,5	ORANGE	23,5	274	710
11120CGX082M25	8 x 2 x 2,5	ORANGE	26,2	427	928
11120CGX102M05	10 x 2 x 0,5	ORANGE	18,3	149	454
11120CGX102M07	10 x 2 x 0,75	ORANGE	19,8	197	542
11120CGX102M10	10 x 2 x 1	ORANGE	21,3	245	630
11120CGX102M15	10 x 2 x 1,5	ORANGE	24,6	341	830
11120CGX102M25	10 x 2 x 2,5	ORANGE	27,5	533	1106
11120CGX122M05	12 x 2 x 0,5	ORANGE	20,2	178	543
11120CGX122M07	12 x 2 x 0,75	ORANGE	21,8	235	641
11120CGX122M10	12 x 2 x 1	ORANGE	23,4	293	740
11120CGX122M15	12 x 2 x 1,5	ORANGE	27,1	408	980
11120CGX122M25	12 x 2 x 2,5	ORANGE	30,4	639	1311
11120CGX142M05	14 x 2 x 0,5	ORANGE	20,9	206	589
11120CGX142M07	14 x 2 x 0,75	ORANGE	22,7	274	706
11120CGX142M10	14 x 2 x 1	ORANGE	24,3	341	818
11120CGX142M15	14 x 2 x 1,5	ORANGE	28,2	475	1087
11120CGX142M25	14 x 2 x 2,5	ORANGE	31,7	744	1464
11120CGX152M05	15 x 2 x 0,5	ORANGE	22,2	221	664
11120CGX152M07	15 x 2 x 0,75	ORANGE	24	293	786
11120CGX152M10	15 x 2 x 1	ORANGE	25,9	365	919
11120CGX152M15	15 x 2 x 1,5	ORANGE	29,9	509	1214
11120CGX152M25	15 x 2 x 2,5	ORANGE	33,6	797	1623
11120CGX162M05	16 x 2 x 0,5	ORANGE	22,2	235	675
11120CGX162M07	16 x 2 x 0,75	ORANGE	24	312	800
11120CGX162M10	16 x 2 x 1	ORANGE	25,9	389	936

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11120CGX162M15	16 x 2 x 1,5	ORANGE	29,9	542	1235
11120CGX162M25	16 x 2 x 2,5	ORANGE	33,6	850	1667
11120CGX192M05	19 x 2 x 0,5	ORANGE	23,8	278	784
11120CGX192M07	19 x 2 x 0,75	ORANGE	25,8	370	939
11120CGX192M10	19 x 2 x 1	ORANGE	27,7	461	1087
11120CGX192M15	19 x 2 x 1,5	ORANGE	32,1	643	1443
11120CGX192M25	19 x 2 x 2,5	ORANGE	36	1008	1955
11120CGX242M05	24 x 2 x 0,5	ORANGE	27,4	351	1066
11120CGX242M07	24 x 2 x 0,75	ORANGE	29,7	466	1262
11120CGX242M10	24 x 2 x 1	ORANGE	32	581	1459
11120CGX242M15	24 x 2 x 1,5	ORANGE	37,1	811	1912
11120CGX242M25	24 x 2 x 2,5	ORANGE	41,7	1272	2562
11120CGX272M05	27 x 2 x 0,5	ORANGE	28,4	394	1139
11120CGX272M07	27 x 2 x 0,75	ORANGE	30,8	523	1357
11120CGX272M10	27 x 2 x 1	ORANGE	33,2	653	1579
11120CGX272M15	27 x 2 x 1,5	ORANGE	38,6	912	2085
11120CGX272M25	27 x 2 x 2,5	ORANGE	43,3	1430	2811
11120CGX302M05	30 x 2 x 0,5	ORANGE	29,5	437	1231
11120CGX302M07	30 x 2 x 0,75	ORANGE	32	581	1470
11120CGX302M10	30 x 2 x 1	ORANGE	34,5	725	1711
11120CGX302M15	30 x 2 x 1,5	ORANGE	40,1	1013	2275
11120CGX302M25	30 x 2 x 2,5	ORANGE	45,1	1589	3073
11120CGX372M05	37 x 2 x 0,5	ORANGE	32,4	538	1501
11120CGX372M07	37 x 2 x 0,75	ORANGE	35,1	715	1792
11120CGX372M10	37 x 2 x 1	ORANGE	37,9	893	2095
11120CGX372M15	37 x 2 x 1,5	ORANGE	44	1248	2780
11120CGX372M25	37 x 2 x 2,5	ORANGE	49,5	1958	3767
11120CGX023M05	2 x 3 x 0,5	ORANGE	11,8	43	168
11120CGX023M07	2 x 3 x 0,75	ORANGE	12,7	58	196
11120CGX023M10	2 x 3 x 1	ORANGE	13,5	72	226
11120CGX023M15	2 x 3 x 1,5	ORANGE	15,6	101	296
11120CGX023M25	2 x 3 x 2,5	ORANGE	17,3	158	394
11120CGX033M05	3 x 3 x 0,5	ORANGE	12,5	62	194
11120CGX033M07	3 x 3 x 0,75	ORANGE	13,5	84	232
11120CGX033M10	3 x 3 x 1	ORANGE	14,5	106	270
11120CGX033M15	3 x 3 x 1,5	ORANGE	16,7	149	357
11120CGX033M25	3 x 3 x 2,5	ORANGE	18,5	235	475
11120CGX043M05	4 x 3 x 0,5	ORANGE	14	82	255
11120CGX043M07	4 x 3 x 0,75	ORANGE	15,1	110	304
11120CGX043M10	4 x 3 x 1	ORANGE	16,2	139	354
11120CGX043M15	4 x 3 x 1,5	ORANGE	18,6	197	468
11120CGX043M25	4 x 3 x 2,5	ORANGE	20,8	312	632
11120CGX053M05	5 x 3 x 0,5	ORANGE	15,2	101	304
11120CGX053M07	5 x 3 x 0,75	ORANGE	16,4	137	366
11120CGX053M10	5 x 3 x 1	ORANGE	17,6	173	427
11120CGX053M15	5 x 3 x 1,5	ORANGE	20,3	245	569
11120CGX053M25	5 x 3 x 2,5	ORANGE	22,7	389	770
11120CGX063M05	6 x 3 x 0,5	ORANGE	16,7	120	366
11120CGX063M07	6 x 3 x 0,75	ORANGE	18	163	440
11120CGX063M10	6 x 3 x 1	ORANGE	19,3	207	512
11120CGX063M15	6 x 3 x 1,5	ORANGE	22,3	293	688
11120CGX063M25	6 x 3 x 2,5	ORANGE	25	466	934
11120CGX073M05	7 x 3 x 0,5	ORANGE	16,7	139	383
11120CGX073M07	7 x 3 x 0,75	ORANGE	18	190	463
11120CGX073M10	7 x 3 x 1	ORANGE	19,3	240	542
11120CGX073M15	7 x 3 x 1,5	ORANGE	22,3	341	731
11120CGX073M25	7 x 3 x 2,5	ORANGE	25	542	999
11120CGX083M05	8 x 3 x 0,5	ORANGE	19,5	158	498

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11120CGX083M07	8 x 3 x 0,75	ORANGE	21,2	216	608
11120CGX083M10	8 x 3 x 1	ORANGE	22,8	274	702
11120CGX083M15	8 x 3 x 1,5	ORANGE	26,3	389	923
11120CGX083M25	8 x 3 x 2,5	ORANGE	29,6	619	1242
11120CGX103M05	10 x 3 x 0,5	ORANGE	20,5	197	575
11120CGX103M07	10 x 3 x 0,75	ORANGE	22,3	269	695
11120CGX103M10	10 x 3 x 1	ORANGE	23,9	341	815
11120CGX103M15	10 x 3 x 1,5	ORANGE	27,7	485	1091
11120CGX103M25	10 x 3 x 2,5	ORANGE	31,1	773	1498
11120CGX123M05	12 x 3 x 0,5	ORANGE	22,6	235	686
11120CGX123M07	12 x 3 x 0,75	ORANGE	24,4	322	825
11120CGX123M10	12 x 3 x 1	ORANGE	26,3	408	968
11120CGX123M15	12 x 3 x 1,5	ORANGE	30,5	581	1301
11120CGX123M25	12 x 3 x 2,5	ORANGE	34,2	927	1773
11120CGX143M05	14 x 3 x 0,5	ORANGE	23,5	274	757
11120CGX143M07	14 x 3 x 0,75	ORANGE	25,4	374	913
11120CGX143M10	14 x 3 x 1	ORANGE	27,4	475	1076
11120CGX143M15	14 x 3 x 1,5	ORANGE	31,9	677	1453
11120CGX143M25	14 x 3 x 2,5	ORANGE	35,7	1080	1993
11120CGX153M05	15 x 3 x 0,5	ORANGE	24,9	293	842
11120CGX153M07	15 x 3 x 0,75	ORANGE	27	401	1022
11120CGX153M10	15 x 3 x 1	ORANGE	29,1	509	1193
11120CGX153M15	15 x 3 x 1,5	ORANGE	33,7	725	1610
11120CGX153M25	15 x 3 x 2,5	ORANGE	38	1157	2213
11120CGX163M05	16 x 3 x 0,5	ORANGE	24,9	312	859
11120CGX163M07	16 x 3 x 0,75	ORANGE	27	427	1044
11120CGX163M10	16 x 3 x 1	ORANGE	29,1	542	1224
11120CGX163M15	16 x 3 x 1,5	ORANGE	33,7	773	1653
11120CGX163M25	16 x 3 x 2,5	ORANGE	38	1234	2279
11120CGX193M05	19 x 3 x 0,5	ORANGE	26,7	370	1000
11120CGX193M07	19 x 3 x 0,75	ORANGE	29	506	1222
11120CGX193M10	19 x 3 x 1	ORANGE	31,2	643	1439
11120CGX193M15	19 x 3 x 1,5	ORANGE	36,2	917	1940
11120CGX193M25	19 x 3 x 2,5	ORANGE	40,7	1464	2673
11120CGX243M05	24 x 3 x 0,5	ORANGE	30,8	466	1346
11120CGX243M07	24 x 3 x 0,75	ORANGE	33,4	639	1620
11120CGX243M10	24 x 3 x 1	ORANGE	36	811	1895
11120CGX243M15	24 x 3 x 1,5	ORANGE	41,9	1157	2539
11120CGX243M25	24 x 3 x 2,5	ORANGE	47,2	1848	3478

Other dimensions and colors available on request.