

GAALSHIP HF 250 ISOS FR WSR

OVERALL SCREEN, ARMoured, INSTRUMENTATION CABLE



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOS FR WSR

APPLICATIONS:

FIRE RESISTANT AND WATER SPRAY INSTRUMENTATION CABLES FOR FIXED ELECTRICAL INSTALLATIONS ABOARD SHIPS, SCREENED AGAINST ELECTROMAGNETIC INTERFERENCES, SUITABLE FOR THE SIGNAL AND TELECOMMUNICATION OF SAFETY-FIRE DEVICES. THESE CABLES PREVENT THE CABLE SHORT-CIRCUIT DUE TO WATER SPRAYS OF FIRE FIGHTERS' HYDRANTS USED DURING THE FIRE, ALLOWING THE CONTINUOUS OPERATION OF THESE DEVICES.

CONSTRUCTION:

CONDUCTOR:	PLAIN ANNEALED COPPER OR TINNED ANNEALED COPPER CONDUCTOR CL. 2, ACC. TO IEC 60228, DIN VDE 0295
INSULATION:	MICA GLASS TAPE + GAAL THERM® 597
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
1ST WRAPPING:	GLASS FIBER TAPE
2ND WRAPPING:	TWO PLAIN ANNEALED COPPER / POLYESTER TAPES
3RD WRAPPING:	GLASS FIBER TAPE
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 WSR, CROSS NOMINAL SECTION mm², 150/250 V, PART N°, IEC 60092-376, IEC 60332-3-22, IEC 60331, BS 8491, PRODUCTION PLANT, BATCH N°, PRODUCTION DATE, CE ROHS, PROGRESSIVE METER MARKING.

TECHNICAL DATA:

NOMINAL VOLTAGE:	U ₀ /U 150/250 V
TEMPERATURE RANGE:	-40°C UP TO +90°C
INSTALLATION TEMP.:	-20°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 (DET NORSKE VERITAS)
 ABS (AMERICAN BUREAU OF SHIPPING)
 OTHER APPROVALS ON REQUEST

RESISTANCE:



FIRE RESISTANT ACC. TO:
 IEC 60331-21
 IEC 60331-2 + WATER SPRAY ACC. TO EN 50200 ANNEX E.
 IEC 60331-1 + WATER JET ACC. TO BS 8491.



FLAME AND FIRE RETARDANT ACC. TO:
 EN IEC 60332-1-2,
 EN IEC 60332-3-22



HALOGEN FREE ACC. TO:
 EN IEC 60754-1/2



SMOKE EMISSION PROPERTIES ACC. TO:
 EN IEC 61034-1/2



UV RESISTANCE ACC. TO:
 UL 1581



OZONE RESISTANCE ACC. TO:
 IEC 60092-360

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 CSA C22.2 NO. 0.3-09 (-40°C)
 COLD BEND IMPACT AT LOW TEMPERATURES ACC. TO CSA C22.2 NO. 0.3-09 (-35°C)
 ON REQUEST CLASS 5 CONDUCTOR ACC. TO IEC 60228

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Part number	No. of cores x cross section n x mm ²	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)
11260CGX022M05	2X2X0,5	13,3	210	40,4
11260CGX022M07	2X2X0,75	14,1	234	26
11260CGX022M10	2X2X1	14,8	262	19,2
11260CGX022M15	2X2X1,5	16,6	324	12,8
11260CGX022M25	2X2X2,5	18,1	399	7,86
11260CGX032M05	3X2X0,5	14,1	233	40,4
11260CGX032M07	3X2X0,75	14,9	262	26
11260CGX032M10	3X2X1	15,8	294	19,2
11260CGX032M15	3X2X1,5	17,7	367	12,8
11260CGX032M25	3X2X2,5	19,3	459	7,86
11260CGX042M05	4X2X0,5	15,6	292	40,4
11260CGX042M07	4X2X0,75	16,6	333	26
11260CGX042M10	4X2X1	17,5	376	19,2
11260CGX042M15	4X2X1,5	19,6	470	12,8
11260CGX042M25	4X2X2,5	21,6	596	7,86
11260CGX052M05	5X2X0,5	16,8	345	40,4
11260CGX052M07	5X2X0,75	17,9	394	26
11260CGX052M10	5X2X1	19	444	19,2
11260CGX052M15	5X2X1,5	21,3	560	12,8
11260CGX052M25	5X2X2,5	23,4	715	7,86
11260CGX062M05	6X2X0,5	18,3	410	40,4
11260CGX062M07	6X2X0,75	19,5	466	26
11260CGX062M10	6X2X1	20,7	533	19,2
11260CGX062M15	6X2X1,5	23,3	665	12,8
11260CGX062M25	6X2X2,5	25,6	855	7,86
11260CGX072M05	7X2X0,5	18,3	418	40,4
11260CGX072M07	7X2X0,75	19,5	481	26
11260CGX072M10	7X2X1	20,7	545	19,2
11260CGX072M15	7X2X1,5	23,3	692	12,8
11260CGX072M25	7X2X2,5	25,6	895	7,86
11260CGX082M05	8X2X0,5	21,4	558	40,4
11260CGX082M07	8X2X0,75	22,8	634	26
11260CGX082M10	8X2X1	24,2	709	19,2
11260CGX082M15	8X2X1,5	27,4	889	12,8
11260CGX082M25	8X2X2,5	30,1	1125	7,86
11260CGX102M05	10X2X0,5	22,4	625	40,4
11260CGX102M07	10X2X0,75	23,9	717	26
11260CGX102M10	10X2X1	25,3	815	19,2
11260CGX102M15	10X2X1,5	28,7	1038	12,8
11260CGX102M25	10X2X2,5	31,6	1335	7,86
11260CGX122M05	12X2X0,5	24,6	733	40,4
11260CGX122M07	12X2X0,75	26,2	843	26
11260CGX122M10	12X2X1	27,8	953	19,2

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11260CGX122M15	12X2X1,5	31,5	1220	12,8
11260CGX122M25	12X2X2,5	34,7	1574	7,86
11260CGX142M05	14X2X0,5	25,5	793	40,4
11260CGX142M07	14X2X0,75	27,2	923	26
11260CGX142M10	14X2X1	28,9	1047	19,2
11260CGX142M15	14X2X1,5	32,7	1338	12,8
11260CGX142M25	14X2X2,5	36,2	1740	7,86
11260CGX152M05	15X2X0,5	27	892	40,4
11260CGX152M07	15X2X0,75	28,8	1027	26
11260CGX152M10	15X2X1	30,6	1177	19,2
11260CGX152M15	15X2X1,5	34,7	1494	12,8
11260CGX152M25	15X2X2,5	38,3	1941	7,86
11260CGX162M05	16X2X0,5	27	901	40,4
11260CGX162M07	16X2X0,75	28,8	1042	26
11260CGX162M10	16X2X1	30,6	1190	19,2
11260CGX162M15	16X2X1,5	34,7	1522	12,8
11260CGX162M25	16X2X2,5	38,3	1980	7,86
11260CGX192M05	19X2X0,5	28,8	1036	40,4
11260CGX192M07	19X2X0,75	30,8	1205	26
11260CGX192M10	19X2X1	32,7	1377	19,2
11260CGX192M15	19X2X1,5	37,1	1770	12,8
11260CGX192M25	19X2X2,5	41,1	2315	7,86
11260CGX242M05	24X2X0,5	33,1	1384	40,4
11260CGX242M07	24X2X0,75	35,4	1599	26
11260CGX242M10	24X2X1	37,7	1816	19,2
11260CGX242M15	24X2X1,5	42,8	2315	12,8
11260CGX242M25	24X2X2,5	47,4	3004	7,86
11260CGX272M05	27X2X0,5	34,4	1484	40,4
11260CGX272M07	27X2X0,75	36,8	1724	26
11260CGX272M10	27X2X1	39,1	1967	19,2
11260CGX272M15	27X2X1,5	44,5	2522	12,8
11260CGX272M25	27X2X2,5	49,3	3291	7,86
11260CGX302M05	30X2X0,5	35,6	1599	40,4
11260CGX302M07	30X2X0,75	38,1	1860	26
11260CGX302M10	30X2X1	40,6	2124	19,2
11260CGX302M15	30X2X1,5	46,2	2740	12,8
11260CGX302M25	30X2X2,5	51,2	3584	7,86
11260CGX372M05	37X2X0,5	39	1940	40,4
11260CGX372M07	37X2X0,75	41,7	2258	26
11260CGX372M10	37X2X1	44,5	2588	19,2
11260CGX372M15	37X2X1,5	50,6	3337	12,8
11260CGX372M25	37X2X2,5	56,1	4380	7,86
11260CGX023M05	2X3X0,5	14,7	249	40,4

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11260CGX023M07	2X3X0,75	15,6	288	26
11260CGX023M10	2X3X1	16,5	321	19,2
11260CGX023M15	2X3X1,5	18,4	404	12,8
11260CGX023M25	2X3X2,5	20,2	502	7,86
11260CGX033M05	3X3X0,5	15,6	285	40,4
11260CGX033M07	3X3X0,75	16,6	328	26
11260CGX033M10	3X3X1	17,6	371	19,2
11260CGX033M15	3X3X1,5	19,6	467	12,8
11260CGX033M25	3X3X2,5	21,6	600	7,86
11260CGX043M05	4X3X0,5	17,3	364	40,4
11260CGX043M07	4X3X0,75	18,4	420	26
11260CGX043M10	4X3X1	19,5	476	19,2
11260CGX043M15	4X3X1,5	21,9	606	12,8
11260CGX043M25	4X3X2,5	24	780	7,86
11260CGX053M05	5X3X0,5	18,8	430	40,4
11260CGX053M07	5X3X0,75	20	498	26
11260CGX053M10	5X3X1	21,2	569	19,2
11260CGX053M15	5X3X1,5	23,8	727	12,8
11260CGX053M25	5X3X2,5	26,2	939	7,86
11260CGX063M05	6X3X0,5	20,4	508	40,4
11260CGX063M07	6X3X0,75	21,8	596	26
11260CGX063M10	6X3X1	23,1	675	19,2
11260CGX063M15	6X3X1,5	26,1	874	12,8
11260CGX063M25	6X3X2,5	28,7	1138	7,86
11260CGX073M05	7X3X0,5	20,4	528	40,4
11260CGX073M07	7X3X0,75	21,8	616	26
11260CGX073M10	7X3X1	23,1	706	19,2
11260CGX073M15	7X3X1,5	26,1	915	12,8
11260CGX073M25	7X3X2,5	28,7	1202	7,86
11260CGX083M05	8X3X0,5	23,9	687	40,4
11260CGX083M07	8X3X0,75	25,5	791	26
11260CGX083M10	8X3X1	27,1	902	19,2
11260CGX083M15	8X3X1,5	30,7	1149	12,8
11260CGX083M25	8X3X2,5	33,8	1484	7,86
11260CGX103M05	10X3X0,5	25,1	781	40,4
11260CGX103M07	10X3X0,75	26,7	914	26
11260CGX103M10	10X3X1	28,4	1048	19,2
11260CGX103M15	10X3X1,5	32,2	1362	12,8
11260CGX103M25	10X3X2,5	35,6	1781	7,86
11260CGX123M05	12X3X0,5	27,4	920	40,4
11260CGX123M07	12X3X0,75	29,3	1079	26
11260CGX123M10	12X3X1	31,2	1238	19,2
11260CGX123M15	12X3X1,5	35,3	1598	12,8

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11260CGX123M25	12X3X2,5	39,1	2108	7,86
11260CGX143M05	14X3X0,5	28,6	1009	40,4
11260CGX143M07	14X3X0,75	30,6	1188	26
11260CGX143M10	14X3X1	32,4	1362	19,2
11260CGX143M15	14X3X1,5	36,9	1774	12,8
11260CGX143M25	14X3X2,5	40,7	2347	7,86
11260CGX153M05	15X3X0,5	30,2	1119	40,4
11260CGX153M07	15X3X0,75	32,3	1322	26
11260CGX153M10	15X3X1	34,4	1519	19,2
11260CGX153M15	15X3X1,5	39,1	1978	12,8
11260CGX153M25	15X3X2,5	43,2	2605	7,86
11260CGX163M05	16X3X0,5	30,2	1139	40,4
11260CGX163M07	16X3X0,75	32,3	1342	26
11260CGX163M10	16X3X1	34,4	1549	19,2
11260CGX163M15	16X3X1,5	39,1	2019	12,8
11260CGX163M25	16X3X2,5	43,2	2668	7,86
11260CGX193M05	19X3X0,5	32,4	1327	40,4
11260CGX193M07	19X3X0,75	34,6	1564	26
11260CGX193M10	19X3X1	36,8	1802	19,2
11260CGX193M15	19X3X1,5	41,8	2349	12,8
11260CGX193M25	19X3X2,5	46,2	3125	7,86
11260CGX243M05	24X3X0,5	37,2	1741	40,4
11260CGX243M07	24X3X0,75	39,8	2041	26
11260CGX243M10	24X3X1	42,5	2352	19,2
11260CGX243M15	24X3X1,5	48,3	3056	12,8
11260CGX243M25	24X3X2,5	53,5	4037	7,86

NOTE(S)

OTHER DIMENSIONS AND COLORS AVAILABLE ON REQUEST.