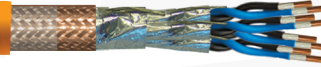


GAALSHIP HF 250 ISOSA FR

INDIVIDUAL & OVERALL SCREEN, ARMoured, INSTRUMENTATION CABLE



ELETTROTEK KABEL® GAALSHIP® HF 250 ISOSA FR



APPLICATIONS:

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

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

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® 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

ARMOUR: PLAIN 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 OS FR, CROSS NOMINAL SECTION mm², 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.

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:
 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

TECHNICAL DATA:

NOMINAL VOLTAGE: U₀/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

FEATURES:

SHEATHING AND INSULATING MATERIALS ACC. TO: IEC 60092-360

DESIGN GUIDELINES ACC. TO IEC 60092-350/353

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 FOR SECTIONS UP TO 10 mm²

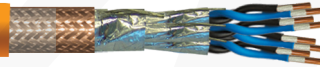
TINNED COPPER WIRES BRAID ARMOUR ON REQUEST.

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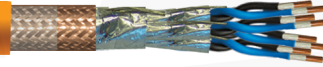
Part number	No. of cores x cross section n x mm ²	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)
11150CGX022M05	2X2X0,5	13,1	231	40,4
11150CGX022M07	2X2X0,75	14,3	289	26
11150CGX022M10	2X2X1	15,2	325	19,2
11150CGX022M15	2X2X1,5	16,9	393	12,8
11150CGX022M25	2X2X2,5	18,4	476	7,86
11150CGX032M05	3X2X0,5	14,4	288	40,4
11150CGX032M07	3X2X0,75	15,2	327	26
11150CGX032M10	3X2X1	16	353	19,2
11150CGX032M15	3X2X1,5	17,9	441	12,8
11150CGX032M25	3X2X2,5	19,6	535	7,86
11150CGX042M05	4X2X0,5	15,9	358	40,4
11150CGX042M07	4X2X0,75	16,8	397	26
11150CGX042M10	4X2X1	17,7	450	19,2
11150CGX042M15	4X2X1,5	19,9	546	12,8
11150CGX042M25	4X2X2,5	21,8	686	7,86
11150CGX052M05	5X2X0,5	17,1	410	40,4
11150CGX052M07	5X2X0,75	18,1	469	26
11150CGX052M10	5X2X1	19,2	520	19,2
11150CGX052M15	5X2X1,5	21,6	652	12,8
11150CGX052M25	5X2X2,5	23,7	821	7,86
11150CGX062M05	6X2X0,5	18,7	490	40,4
11150CGX062M07	6X2X0,75	19,8	548	26
11150CGX062M10	6X2X1	20,9	622	19,2
11150CGX062M15	6X2X1,5	23,6	775	12,8
11150CGX062M25	6X2X2,5	25,9	965	7,86
11150CGX072M05	7X2X0,5	18,7	497	40,4
11150CGX072M07	7X2X0,75	19,8	564	26
11150CGX072M10	7X2X1	20,9	636	19,2
11150CGX072M15	7X2X1,5	23,6	801	12,8
11150CGX072M25	7X2X2,5	25,9	1005	7,86
11150CGX082M05	8X2X0,5	21,6	645	40,4
11150CGX082M07	8X2X0,75	23	723	26
11150CGX082M10	8X2X1	24,4	815	19,2
11150CGX082M15	8X2X1,5	27,6	1011	12,8
11150CGX082M25	8X2X2,5	30,3	1246	7,86
11150CGX102M05	10X2X0,5	22,7	716	40,4
11150CGX102M07	10X2X0,75	24,1	822	26
11150CGX102M10	10X2X1	25,6	920	19,2
11150CGX102M15	10X2X1,5	28,9	1156	12,8
11150CGX102M25	10X2X2,5	31,9	1478	7,86
11150CGX122M05	12X2X0,5	24,8	840	40,4
11150CGX122M07	12X2X0,75	26,4	946	26
11150CGX122M10	12X2X1	28,1	1079	19,2
11150CGX122M15	12X2X1,5	31,7	1354	12,8

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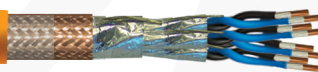
Part number	No. of cores x cross section n x mm ²	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)
11150CGX122M25	12X2X2,5	35	1731	7,86
11150CGX142M05	14X2X0,5	25,8	903	40,4
11150CGX142M07	14X2X0,75	27,5	1042	26
11150CGX142M10	14X2X1	29,1	1169	19,2
11150CGX142M15	14X2X1,5	33,1	1480	12,8
11150CGX142M25	14X2X2,5	36,9	1987	7,86
11150CGX152M05	15X2X0,5	27,2	1013	40,4
11150CGX152M07	15X2X0,75	29	1147	26
11150CGX152M10	15X2X1	30,9	1311	19,2
11150CGX152M15	15X2X1,5	34,9	1652	12,8
11150CGX152M25	15X2X2,5	39,1	2225	7,86
11150CGX162M05	16X2X0,5	27,2	1020	40,4
11150CGX162M07	16X2X0,75	29	1162	26
11150CGX162M10	16X2X1	30,9	1327	19,2
11150CGX162M15	16X2X1,5	34,9	1677	12,8
11150CGX162M25	16X2X2,5	39,1	2267	7,86
11150CGX192M05	19X2X0,5	29,1	1161	40,4
11150CGX192M07	19X2X0,75	31	1343	26
11150CGX192M10	19X2X1	33	1508	19,2
11150CGX192M15	19X2X1,5	37,9	2014	12,8
11150CGX192M25	19X2X2,5	41,7	2599	7,86
11150CGX242M05	24X2X0,5	33,3	1518	40,4
11150CGX242M07	24X2X0,75	35,6	1753	26
11150CGX242M10	24X2X1	38,3	2058	19,2
11150CGX242M15	24X2X1,5	43,6	2603	12,8
11150CGX242M25	24X2X2,5	48,1	3333	7,86
11150CGX272M05	27X2X0,5	34,6	1639	40,4
11150CGX272M07	27X2X0,75	37,4	1959	26
11150CGX272M10	27X2X1	39,8	2243	19,2
11150CGX272M15	27X2X1,5	45,2	2856	12,8
11150CGX272M25	27X2X2,5	50	3624	7,86
11150CGX302M05	30X2X0,5	35,8	1752	40,4
11150CGX302M07	30X2X0,75	38,8	2116	26
11150CGX302M10	30X2X1	41,3	2418	19,2
11150CGX302M15	30X2X1,5	46,8	3071	12,8
11150CGX302M25	30X2X2,5	51,9	3963	7,86
11150CGX372M05	37X2X0,5	39,7	2215	40,4
11150CGX372M07	37X2X0,75	42,5	2551	26
11150CGX372M10	37X2X1	45,2	2873	19,2
11150CGX372M15	37X2X1,5	51,4	3675	12,8
11150CGX372M25	37X2X2,5	56,8	4767	7,86
11150CGX023M05	2X3X0,5	14,9	310	40,4
11150CGX023M07	2X3X0,75	15,8	349	26
11150CGX023M10	2X3X1	16,7	388	19,2

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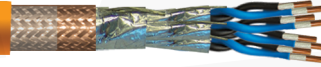
Part number	No. of cores x cross section n x mm ²	Outer diameter ca.mm	Cable weight approx. kg/km	Max conductor resistance @20°C (Ω/Km)
11150CGX023M15	2X3X1,5	18,8	486	12,8
11150CGX023M25	2X3X2,5	20,5	592	7,86
11150CGX033M05	3X3X0,5	15,8	346	40,4
11150CGX033M07	3X3X0,75	16,8	391	26
11150CGX033M10	3X3X1	17,8	446	19,2
11150CGX033M15	3X3X1,5	20	548	12,8
11150CGX033M25	3X3X2,5	21,8	692	7,86
11150CGX043M05	4X3X0,5	17,6	431	40,4
11150CGX043M07	4X3X0,75	18,6	497	26
11150CGX043M10	4X3X1	19,7	551	19,2
11150CGX043M15	4X3X1,5	22,1	697	12,8
11150CGX043M25	4X3X2,5	24,3	883	7,86
11150CGX053M05	5X3X0,5	19	506	40,4
11150CGX053M07	5X3X0,75	20,2	577	26
11150CGX053M10	5X3X1	21,4	661	19,2
11150CGX053M15	5X3X1,5	24	832	12,8
11150CGX053M25	5X3X2,5	26,4	1047	7,86
11150CGX063M05	6X3X0,5	20,7	597	40,4
11150CGX063M07	6X3X0,75	22	687	26
11150CGX063M10	6X3X1	23,4	773	19,2
11150CGX063M15	6X3X1,5	26,3	978	12,8
11150CGX063M25	6X3X2,5	29	1255	7,86
11150CGX073M05	7X3X0,5	20,7	617	40,4
11150CGX073M07	7X3X0,75	22	707	26
11150CGX073M10	7X3X1	23,4	802	19,2
11150CGX073M15	7X3X1,5	26,3	1019	12,8
11150CGX073M25	7X3X2,5	29	1320	7,86
11150CGX083M05	8X3X0,5	24,1	794	40,4
11150CGX083M07	8X3X0,75	25,8	901	26
11150CGX083M10	8X3X1	27,4	1021	19,2
11150CGX083M15	8X3X1,5	30,9	1273	12,8
11150CGX083M25	8X3X2,5	34,2	1631	7,86
11150CGX103M05	10X3X0,5	25,3	886	40,4
11150CGX103M07	10X3X0,75	27	1039	26
11150CGX103M10	10X3X1	28,7	1171	19,2
11150CGX103M15	10X3X1,5	32,4	1496	12,8
11150CGX103M25	10X3X2,5	35,8	1942	7,86
11150CGX123M05	12X3X0,5	27,7	1039	40,4
11150CGX123M07	12X3X0,75	29,6	1196	26
11150CGX123M10	12X3X1	31,5	1372	19,2
11150CGX123M15	12X3X1,5	35,7	1761	12,8
11150CGX123M25	12X3X2,5	39,7	2383	7,86
11150CGX143M05	14X3X0,5	28,8	1130	40,4
11150CGX143M07	14X3X0,75	30,8	1326	26

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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)
11150CGX143M10	14X3X1	32,7	1496	19,2
11150CGX143M15	14X3X1,5	37,5	2021	12,8
11150CGX143M25	14X3X2,5	41,5	2636	7,86
11150CGX153M05	15X3X0,5	30,5	1261	40,4
11150CGX153M07	15X3X0,75	32,5	1455	26
11150CGX153M10	15X3X1	34,6	1675	19,2
11150CGX153M15	15X3X1,5	39,7	2257	12,8
11150CGX153M25	15X3X2,5	43,9	2896	7,86
11150CGX163M05	16X3X0,5	30,5	1281	40,4
11150CGX163M07	16X3X0,75	32,5	1473	26
11150CGX163M10	16X3X1	34,6	1705	19,2
11150CGX163M15	16X3X1,5	39,7	2298	12,8
11150CGX163M25	16X3X2,5	43,9	2959	7,86
11150CGX193M05	19X3X0,5	32,6	1459	40,4
11150CGX193M07	19X3X0,75	34,8	1718	26
11150CGX193M10	19X3X1	37,5	2038	19,2
11150CGX193M15	19X3X1,5	42,5	2637	12,8
11150CGX193M25	19X3X2,5	47	3467	7,86
11150CGX243M05	24X3X0,5	37,9	1996	40,4
11150CGX243M07	24X3X0,75	40,5	2327	26
11150CGX243M10	24X3X1	43,1	2631	19,2
11150CGX243M15	24X3X1,5	49	3388	12,8
11150CGX243M25	24X3X2,5	54,3	4418	7,86

NOTE(S)

OTHER DIMENSIONS AND COLORS AVAILABLE ON REQUEST.