

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.

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

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 |
| 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:
 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

Technical data:

| | |
|-----------------------------------|-----------------------------|
| NOMINAL VOLTAGE: | U ₀ /U 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 |

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/quads x cross section n x mm ² | Outer sheath color | Outer diameter ca.mm | Copper weight approx. kg/km | Cable weight approx. kg/km |
|----------------|--|--------------------|----------------------|-----------------------------|----------------------------|
| 11050CGX012M05 | 1 x 2 x 0,5 | ORANGE | 8,2 | 14 | 87 |
| 11050CGX012M07 | 1 x 2 x 0,75 | ORANGE | 8,6 | 19 | 99 |
| 11050CGX012M10 | 1 x 2 x 1 | ORANGE | 9 | 24 | 109 |
| 11050CGX012M15 | 1 x 2 x 1,5 | ORANGE | 9,9 | 34 | 134 |
| 11050CGX012M25 | 1 x 2 x 2,5 | ORANGE | 10,7 | 53 | 166 |
| 11050CGX022M05 | 2 x 2 x 0,5 | ORANGE | 11,2 | 24 | 139 |
| 11050CGX022M07 | 2 x 2 x 0,75 | ORANGE | 12 | 34 | 165 |
| 11050CGX022M10 | 2 x 2 x 1 | ORANGE | 12,8 | 43 | 189 |
| 11050CGX022M15 | 2 x 2 x 1,5 | ORANGE | 14,4 | 62 | 243 |
| 11050CGX022M25 | 2 x 2 x 2,5 | ORANGE | 15,8 | 101 | 311 |
| 11050CGX032M05 | 3 x 2 x 0,5 | ORANGE | 12 | 34 | 156 |
| 11050CGX032M07 | 3 x 2 x 0,75 | ORANGE | 12,8 | 48 | 184 |
| 11050CGX032M10 | 3 x 2 x 1 | ORANGE | 13,5 | 62 | 208 |
| 11050CGX032M15 | 3 x 2 x 1,5 | ORANGE | 15,4 | 91 | 272 |
| 11050CGX032M25 | 3 x 2 x 2,5 | ORANGE | 16,9 | 149 | 357 |
| 11050CGX042M05 | 4 x 2 x 0,5 | ORANGE | 13,3 | 43 | 201 |
| 11050CGX042M07 | 4 x 2 x 0,75 | ORANGE | 14,2 | 62 | 237 |
| 11050CGX042M10 | 4 x 2 x 1 | ORANGE | 15,1 | 82 | 274 |
| 11050CGX042M15 | 4 x 2 x 1,5 | ORANGE | 17,2 | 120 | 357 |
| 11050CGX042M25 | 4 x 2 x 2,5 | ORANGE | 18,9 | 197 | 470 |
| 11050CGX052M05 | 5 x 2 x 0,5 | ORANGE | 14,4 | 53 | 240 |
| 11050CGX052M07 | 5 x 2 x 0,75 | ORANGE | 15,5 | 77 | 285 |
| 11050CGX052M10 | 5 x 2 x 1 | ORANGE | 16,5 | 101 | 330 |
| 11050CGX052M15 | 5 x 2 x 1,5 | ORANGE | 18,7 | 149 | 433 |
| 11050CGX052M25 | 5 x 2 x 2,5 | ORANGE | 20,6 | 245 | 572 |
| 11050CGX062M05 | 6 x 2 x 0,5 | ORANGE | 15,8 | 62 | 291 |
| 11050CGX062M07 | 6 x 2 x 0,75 | ORANGE | 16,9 | 91 | 342 |
| 11050CGX062M10 | 6 x 2 x 1 | ORANGE | 18 | 120 | 394 |
| 11050CGX062M15 | 6 x 2 x 1,5 | ORANGE | 20,5 | 178 | 521 |
| 11050CGX062M25 | 6 x 2 x 2,5 | ORANGE | 22,7 | 293 | 698 |
| 11050CGX072M05 | 7 x 2 x 0,5 | ORANGE | 15,8 | 72 | 293 |
| 11050CGX072M07 | 7 x 2 x 0,75 | ORANGE | 16,9 | 106 | 350 |
| 11050CGX072M10 | 7 x 2 x 1 | ORANGE | 18 | 139 | 408 |
| 11050CGX072M15 | 7 x 2 x 1,5 | ORANGE | 20,5 | 206 | 540 |
| 11050CGX072M25 | 7 x 2 x 2,5 | ORANGE | 22,7 | 341 | 729 |
| 11050CGX082M05 | 8 x 2 x 0,5 | ORANGE | 18,6 | 82 | 411 |
| 11050CGX082M07 | 8 x 2 x 0,75 | ORANGE | 19,9 | 120 | 478 |
| 11050CGX082M10 | 8 x 2 x 1 | ORANGE | 21,2 | 158 | 546 |
| 11050CGX082M15 | 8 x 2 x 1,5 | ORANGE | 24,2 | 235 | 703 |
| 11050CGX082M25 | 8 x 2 x 2,5 | ORANGE | 26,8 | 389 | 923 |
| 11050CGX102M05 | 10 x 2 x 0,5 | ORANGE | 19,5 | 101 | 448 |
| 11050CGX102M07 | 10 x 2 x 0,75 | ORANGE | 20,8 | 149 | 536 |
| 11050CGX102M10 | 10 x 2 x 1 | ORANGE | 22,3 | 197 | 628 |
| 11050CGX102M15 | 10 x 2 x 1,5 | ORANGE | 25,4 | 293 | 828 |
| 11050CGX102M25 | 10 x 2 x 2,5 | ORANGE | 28,2 | 485 | 1114 |
| 11050CGX122M05 | 12 x 2 x 0,5 | ORANGE | 21,5 | 120 | 535 |
| 11050CGX122M07 | 12 x 2 x 0,75 | ORANGE | 23 | 178 | 635 |
| 11050CGX122M10 | 12 x 2 x 1 | ORANGE | 24,5 | 235 | 734 |
| 11050CGX122M15 | 12 x 2 x 1,5 | ORANGE | 28 | 350 | 977 |
| 11050CGX122M25 | 12 x 2 x 2,5 | ORANGE | 31 | 581 | 1305 |
| 11050CGX142M05 | 14 x 2 x 0,5 | ORANGE | 22,3 | 139 | 581 |
| 11050CGX142M07 | 14 x 2 x 0,75 | ORANGE | 23,9 | 206 | 693 |
| 11050CGX142M10 | 14 x 2 x 1 | ORANGE | 25,5 | 274 | 808 |
| 11050CGX142M15 | 14 x 2 x 1,5 | ORANGE | 29,1 | 408 | 1074 |
| 11050CGX142M25 | 14 x 2 x 2,5 | ORANGE | 32,4 | 677 | 1454 |
| 11050CGX152M05 | 15 x 2 x 0,5 | ORANGE | 23,6 | 149 | 659 |
| 11050CGX152M07 | 15 x 2 x 0,75 | ORANGE | 25,3 | 221 | 783 |
| 11050CGX152M10 | 15 x 2 x 1 | ORANGE | 27,1 | 293 | 912 |

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| Part no. | No. of pairs/triples/quads x cross section n x mm ² | Outer sheath color | Outer diameter ca.mm | Copper weight approx. kg/km | Cable weight approx. kg/km |
|----------------|--|--------------------|----------------------|-----------------------------|----------------------------|
| 11050CGX152M15 | 15 x 2 x 1,5 | ORANGE | 31 | 437 | 1212 |
| 11050CGX152M25 | 15 x 2 x 2,5 | ORANGE | 34,4 | 725 | 1635 |
| 11050CGX162M05 | 16 x 2 x 0,5 | ORANGE | 23,6 | 158 | 660 |
| 11050CGX162M07 | 16 x 2 x 0,75 | ORANGE | 25,3 | 235 | 790 |
| 11050CGX162M10 | 16 x 2 x 1 | ORANGE | 27,1 | 312 | 926 |
| 11050CGX162M15 | 16 x 2 x 1,5 | ORANGE | 31 | 466 | 1232 |
| 11050CGX162M25 | 16 x 2 x 2,5 | ORANGE | 34,4 | 773 | 1666 |
| 11050CGX192M05 | 19 x 2 x 0,5 | ORANGE | 25,3 | 187 | 763 |
| 11050CGX192M07 | 19 x 2 x 0,75 | ORANGE | 27,2 | 278 | 919 |
| 11050CGX192M10 | 19 x 2 x 1 | ORANGE | 29,1 | 370 | 1078 |
| 11050CGX192M15 | 19 x 2 x 1,5 | ORANGE | 33,1 | 552 | 1432 |
| 11050CGX192M25 | 19 x 2 x 2,5 | ORANGE | 36,9 | 917 | 1949 |
| 11050CGX242M05 | 24 x 2 x 0,5 | ORANGE | 29,1 | 235 | 1043 |
| 11050CGX242M07 | 24 x 2 x 0,75 | ORANGE | 31,3 | 350 | 1241 |
| 11050CGX242M10 | 24 x 2 x 1 | ORANGE | 33,5 | 466 | 1443 |
| 11050CGX242M15 | 24 x 2 x 1,5 | ORANGE | 38,4 | 696 | 1904 |
| 11050CGX242M25 | 24 x 2 x 2,5 | ORANGE | 42,7 | 1157 | 2559 |
| 11050CGX272M05 | 27 x 2 x 0,5 | ORANGE | 30,3 | 264 | 1113 |
| 11050CGX272M07 | 27 x 2 x 0,75 | ORANGE | 32,5 | 394 | 1336 |
| 11050CGX272M10 | 27 x 2 x 1 | ORANGE | 34,8 | 523 | 1560 |
| 11050CGX272M15 | 27 x 2 x 1,5 | ORANGE | 39,9 | 782 | 2075 |
| 11050CGX272M25 | 27 x 2 x 2,5 | ORANGE | 44,4 | 1301 | 2808 |
| 11050CGX302M05 | 30 x 2 x 0,5 | ORANGE | 31,4 | 293 | 1198 |
| 11050CGX302M07 | 30 x 2 x 0,75 | ORANGE | 33,8 | 437 | 1441 |
| 11050CGX302M10 | 30 x 2 x 1 | ORANGE | 36,1 | 581 | 1687 |
| 11050CGX302M15 | 30 x 2 x 1,5 | ORANGE | 41,5 | 869 | 2259 |
| 11050CGX302M25 | 30 x 2 x 2,5 | ORANGE | 46,2 | 1445 | 3065 |
| 11050CGX372M05 | 37 x 2 x 0,5 | ORANGE | 34,6 | 360 | 1465 |
| 11050CGX372M07 | 37 x 2 x 0,75 | ORANGE | 37,2 | 538 | 1763 |
| 11050CGX372M10 | 37 x 2 x 1 | ORANGE | 39,7 | 715 | 2061 |
| 11050CGX372M15 | 37 x 2 x 1,5 | ORANGE | 45,6 | 1070 | 2768 |
| 11050CGX372M25 | 37 x 2 x 2,5 | ORANGE | 50,7 | 1781 | 3754 |
| 11050CGX013M05 | 1 x 3 x 0,5 | ORANGE | 8,6 | 19 | 98 |
| 11050CGX013M07 | 1 x 3 x 0,75 | ORANGE | 9 | 26 | 111 |
| 11050CGX013M10 | 1 x 3 x 1 | ORANGE | 9,5 | 34 | 125 |
| 11050CGX013M15 | 1 x 3 x 1,5 | ORANGE | 10,4 | 48 | 155 |
| 11050CGX013M25 | 1 x 3 x 2,5 | ORANGE | 11,3 | 77 | 196 |
| 11050CGX023M05 | 2 x 3 x 0,5 | ORANGE | 12,2 | 34 | 176 |
| 11050CGX023M07 | 2 x 3 x 0,75 | ORANGE | 13,1 | 48 | 207 |
| 11050CGX023M10 | 2 x 3 x 1 | ORANGE | 13,9 | 62 | 237 |
| 11050CGX023M15 | 2 x 3 x 1,5 | ORANGE | 15,7 | 91 | 305 |
| 11050CGX023M25 | 2 x 3 x 2,5 | ORANGE | 17,3 | 149 | 397 |
| 11050CGX033M05 | 3 x 3 x 0,5 | ORANGE | 13,1 | 48 | 199 |
| 11050CGX033M07 | 3 x 3 x 0,75 | ORANGE | 14 | 70 | 238 |
| 11050CGX033M10 | 3 x 3 x 1 | ORANGE | 14,8 | 91 | 272 |
| 11050CGX033M15 | 3 x 3 x 1,5 | ORANGE | 16,8 | 134 | 360 |
| 11050CGX033M25 | 3 x 3 x 2,5 | ORANGE | 18,6 | 221 | 484 |
| 11050CGX043M05 | 4 x 3 x 0,5 | ORANGE | 14,6 | 62 | 258 |
| 11050CGX043M07 | 4 x 3 x 0,75 | ORANGE | 15,6 | 91 | 307 |
| 11050CGX043M10 | 4 x 3 x 1 | ORANGE | 16,6 | 120 | 358 |
| 11050CGX043M15 | 4 x 3 x 1,5 | ORANGE | 18,8 | 178 | 475 |
| 11050CGX043M25 | 4 x 3 x 2,5 | ORANGE | 20,8 | 293 | 638 |
| 11050CGX053M05 | 5 x 3 x 0,5 | ORANGE | 15,8 | 77 | 311 |
| 11050CGX053M07 | 5 x 3 x 0,75 | ORANGE | 16,9 | 113 | 372 |
| 11050CGX053M10 | 5 x 3 x 1 | ORANGE | 18 | 149 | 433 |
| 11050CGX053M15 | 5 x 3 x 1,5 | ORANGE | 20,5 | 221 | 578 |
| 11050CGX053M25 | 5 x 3 x 2,5 | ORANGE | 22,7 | 365 | 778 |
| 11050CGX063M05 | 6 x 3 x 0,5 | ORANGE | 17,3 | 91 | 373 |

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| Part no. | No. of pairs/triples/quads x cross section n x mm ² | Outer sheath color | Outer diameter ca.mm | Copper weight approx. kg/km | Cable weight approx. kg/km |
|----------------|--|--------------------|----------------------|-----------------------------|----------------------------|
| 11050CGX063M07 | 6 x 3 x 0,75 | ORANGE | 18,6 | 134 | 448 |
| 11050CGX063M10 | 6 x 3 x 1 | ORANGE | 19,9 | 178 | 530 |
| 11050CGX063M15 | 6 x 3 x 1,5 | ORANGE | 22,6 | 264 | 705 |
| 11050CGX063M25 | 6 x 3 x 2,5 | ORANGE | 25 | 437 | 955 |
| 11050CGX073M05 | 7 x 3 x 0,5 | ORANGE | 17,3 | 106 | 385 |
| 11050CGX073M07 | 7 x 3 x 0,75 | ORANGE | 18,6 | 156 | 470 |
| 11050CGX073M10 | 7 x 3 x 1 | ORANGE | 19,9 | 206 | 551 |
| 11050CGX073M15 | 7 x 3 x 1,5 | ORANGE | 22,6 | 307 | 738 |
| 11050CGX073M25 | 7 x 3 x 2,5 | ORANGE | 25 | 509 | 1009 |
| 11050CGX083M05 | 8 x 3 x 0,5 | ORANGE | 20,4 | 120 | 519 |
| 11050CGX083M07 | 8 x 3 x 0,75 | ORANGE | 21,9 | 178 | 614 |
| 11050CGX083M10 | 8 x 3 x 1 | ORANGE | 23,4 | 235 | 714 |
| 11050CGX083M15 | 8 x 3 x 1,5 | ORANGE | 26,6 | 350 | 932 |
| 11050CGX083M25 | 8 x 3 x 2,5 | ORANGE | 29,6 | 581 | 1255 |
| 11050CGX103M05 | 10 x 3 x 0,5 | ORANGE | 21,5 | 149 | 591 |
| 11050CGX103M07 | 10 x 3 x 0,75 | ORANGE | 23 | 221 | 711 |
| 11050CGX103M10 | 10 x 3 x 1 | ORANGE | 24,6 | 293 | 836 |
| 11050CGX103M15 | 10 x 3 x 1,5 | ORANGE | 28 | 437 | 1111 |
| 11050CGX103M25 | 10 x 3 x 2,5 | ORANGE | 31,1 | 725 | 1515 |
| 11050CGX123M05 | 12 x 3 x 0,5 | ORANGE | 23,6 | 178 | 700 |
| 11050CGX123M07 | 12 x 3 x 0,75 | ORANGE | 25,3 | 264 | 840 |
| 11050CGX123M10 | 12 x 3 x 1 | ORANGE | 27 | 350 | 987 |
| 11050CGX123M15 | 12 x 3 x 1,5 | ORANGE | 30,8 | 523 | 1318 |
| 11050CGX123M25 | 12 x 3 x 2,5 | ORANGE | 34,3 | 869 | 1794 |
| 11050CGX143M05 | 14 x 3 x 0,5 | ORANGE | 24,6 | 206 | 768 |
| 11050CGX143M07 | 14 x 3 x 0,75 | ORANGE | 26,4 | 307 | 928 |
| 11050CGX143M10 | 14 x 3 x 1 | ORANGE | 28,2 | 408 | 1095 |
| 11050CGX143M15 | 14 x 3 x 1,5 | ORANGE | 32,2 | 610 | 1471 |
| 11050CGX143M25 | 14 x 3 x 2,5 | ORANGE | 35,8 | 1013 | 2016 |
| 11050CGX153M05 | 15 x 3 x 0,5 | ORANGE | 26,1 | 221 | 863 |
| 11050CGX153M07 | 15 x 3 x 0,75 | ORANGE | 27,9 | 329 | 1035 |
| 11050CGX153M10 | 15 x 3 x 1 | ORANGE | 29,9 | 437 | 1223 |
| 11050CGX153M15 | 15 x 3 x 1,5 | ORANGE | 34,2 | 653 | 1652 |
| 11050CGX153M25 | 15 x 3 x 2,5 | ORANGE | 38 | 1085 | 2251 |
| 11050CGX163M05 | 16 x 3 x 0,5 | ORANGE | 26,1 | 235 | 875 |
| 11050CGX163M07 | 16 x 3 x 0,75 | ORANGE | 27,9 | 350 | 1056 |
| 11050CGX163M10 | 16 x 3 x 1 | ORANGE | 29,9 | 466 | 1246 |
| 11050CGX163M15 | 16 x 3 x 1,5 | ORANGE | 34,2 | 696 | 1685 |
| 11050CGX163M25 | 16 x 3 x 2,5 | ORANGE | 38 | 1157 | 2305 |
| 11050CGX193M05 | 19 x 3 x 0,5 | ORANGE | 28 | 278 | 1019 |
| 11050CGX193M07 | 19 x 3 x 0,75 | ORANGE | 29,9 | 415 | 1232 |
| 11050CGX193M10 | 19 x 3 x 1 | ORANGE | 32 | 552 | 1454 |
| 11050CGX193M15 | 19 x 3 x 1,5 | ORANGE | 36,7 | 826 | 1972 |
| 11050CGX193M25 | 19 x 3 x 2,5 | ORANGE | 40,7 | 1373 | 2704 |
| 11050CGX243M05 | 24 x 3 x 0,5 | ORANGE | 32,2 | 350 | 1366 |
| 11050CGX243M07 | 24 x 3 x 0,75 | ORANGE | 34,6 | 523 | 1646 |
| 11050CGX243M10 | 24 x 3 x 1 | ORANGE | 37 | 696 | 1928 |
| 11050CGX243M15 | 24 x 3 x 1,5 | ORANGE | 42,5 | 1042 | 2585 |
| 11050CGX243M25 | 24 x 3 x 2,5 | ORANGE | 47,3 | 1733 | 3524 |
| 11050CGX014M05 | 1 x 4 x 0,5 | ORANGE | 9,2 | 24 | 115 |
| 11050CGX014M07 | 1 x 4 x 0,75 | ORANGE | 9,7 | 34 | 132 |
| 11050CGX014M10 | 1 x 4 x 1 | ORANGE | 10,2 | 43 | 148 |
| 11050CGX014M15 | 1 x 4 x 1,5 | ORANGE | 11,3 | 62 | 186 |
| 11050CGX014M25 | 1 x 4 x 2,5 | ORANGE | 12,2 | 101 | 240 |

Other dimensions and colors available on request.