

**BO-SHIP CONTROL & INSTRU CABLE  
XLPE-IS-OS-SHF1 150/250V (300V)**



**Technical data**



**Conductor**

**Bare (optional tinned copper) class 5 according to IEC 60228**

**Insulation**

**HF XLPE compound according to IEC 60092-360**

**Thickness according to IEC 60092-353**

**Core identification (preferential)**

**Pair: black, white with numbers 1-1, 2-2, 3-3, ...**

**Triple: black, white, red with numbers 1-1-1, 2-2-2, 3-3-3, ...**

**Quad: black, white, red, blue with numbers 1-1-1-1, 2-2-2-2, 3-3-3-3, ...**

**Single core assembly**

**Each core assembled forming pairs or triples or quads (unit)**

**Individual screen on each unit**

**Aluminium/polyester tape with drain wire (optional bare or tinned copper wire braid)**

**Unit assembly**

**All cores or units assembled in round formation with suitable fillers and non hygroscopic tape(s)**

**Collective screen**

**Aluminium/polyester tape with drain wire**

**Outer Sheath**

**SHF1 compound according to IEC 60092-360**

**Thickness according to IEC 60092-353**

**Colour: grey (or other colour agreed)**

**Outer diameter according to IEC 60092-350 annex D**

**Marking**

**SH-CI-IC-U 150/250 V 90°C (n° cores) x (n° units) x (cross-section) – IEC 60092-376 – IEC 60332-3-22 – traceability code**

**Rated conductor temperature for fixed installation**

**90°C**

**Minimum installation temperature**

**-15°C**

**Minimum bending radius**

**6D: D is the overall diameter**

**Fire behaviour**

**IEC 60332-3-22 not fire propagation**

**IEC 60332-1-2 not flame propagation**

**IEC 60754-1 halogen content**

**IEC 60754-2 pH and conductivity**

**IEC 60684-2 fluorine content**

**IEC 61034 smoke emission**

| coppie e<br>numero<br>conduttori<br>x sezione<br>pair and<br>conductor<br>number x<br>cross-<br>section<br>[n x mm <sup>2</sup> ] | diametro<br>esterno<br>overall<br>diameter<br>[mm] | massa Cu<br>Cu mass<br>[kg/km] | massa<br>cavo<br>cable<br>mass<br>[kg/km] |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------|
| 2X2X0,75                                                                                                                          | 10,0                                               | 4                              | 122                                       |
| 4X2X0,75                                                                                                                          | 11,8                                               | 82                             | 198                                       |
| 7X2X0,75                                                                                                                          | 14,2                                               | 140                            | 303                                       |
| 10X2X0,75                                                                                                                         | 18,3                                               | 197                            | 432                                       |
| 14X2X0,75                                                                                                                         | 20,0                                               | 274                            | 564                                       |
| 19X2X0,75                                                                                                                         | 22,5                                               | 370                            | 742                                       |
| 24X2X0,75                                                                                                                         | 26,5                                               | 466                            | 950                                       |
| 30X2X0,75                                                                                                                         | 28,3                                               | 581                            | 1159                                      |
| 37X2X0,75                                                                                                                         | 30,7                                               | 716                            | 1392                                      |
| 2X2X1                                                                                                                             | 10,7                                               | 60                             | 142                                       |
| 4X2X1                                                                                                                             | 12,6                                               | 113                            | 235                                       |
| 7X2X1                                                                                                                             | 15,3                                               | 192                            | 364                                       |
| 10X2X1                                                                                                                            | 19,9                                               | 272                            | 519                                       |
| 14X2X1                                                                                                                            | 21,6                                               | 377                            | 621                                       |
| 19X2X1                                                                                                                            | 24,3                                               | 509                            | 717                                       |
| 24X2X1                                                                                                                            | 28,8                                               | 641                            | 939                                       |
| 30X2X1                                                                                                                            | 30,8                                               | 800                            | 1177                                      |
| 37X2X1                                                                                                                            | 33,4                                               | 984                            | 1439                                      |
| 2X2X1,5                                                                                                                           | 12,5                                               | 80                             | 182                                       |
| 4X2X1,5                                                                                                                           | 14,8                                               | 152                            | 292                                       |
| 7X2X1,5                                                                                                                           | 17,9                                               | 260                            | 469                                       |
| 10X2X1,5                                                                                                                          | 23,3                                               | 368                            | 665                                       |
| 14X2X1,5                                                                                                                          | 25,5                                               | 512                            | 884                                       |
| 19X2X1,5                                                                                                                          | 28,7                                               | 692                            | 1163                                      |
| 24X2X1,5                                                                                                                          | 34,1                                               | 872                            | 1484                                      |
| 30X2X1,5                                                                                                                          | 36,3                                               | 1088                           | 1809                                      |
| 37X2X1,5                                                                                                                          | 39,4                                               | 1340                           | 2205                                      |
| 4X3X0,75                                                                                                                          | 11,3                                               | 111                            | 243                                       |
| 7X3X0,75                                                                                                                          | 13,5                                               | 190                            | 387                                       |
| 12X3X0,75                                                                                                                         | 18,1                                               | 322                            | 645                                       |
| 4X3X1                                                                                                                             | 14,2                                               | 152                            | 300                                       |
| 7X3X1                                                                                                                             | 17,2                                               | 260                            | 471                                       |
| 12X3X1                                                                                                                            | 23,1                                               | 440                            | 779                                       |
| 4X3X1,5                                                                                                                           | 16,6                                               | 209                            | 379                                       |
| 7X3X1,5                                                                                                                           | 20,2                                               | 360                            | 619                                       |
| 12X3X1,5                                                                                                                          | 27,1                                               | 612                            | 1026                                      |

| quarte e<br>numero<br>conduttori<br>x sezione<br>quad and<br>conductor<br>number x<br>cross-<br>section<br>[n x mm <sup>2</sup> ] | diametro<br>esterno<br>overall<br>diameter<br>[mm] | massa Cu<br>Cu mass<br>[kg/km] | massa<br>cavo<br>cable<br>mass<br>[kg/km] |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------|
| 3x4x0,75                                                                                                                          | 14,0                                               | 106                            | 381                                       |
| 5x4x0,75                                                                                                                          | 17,1                                               | 173                            | 366                                       |
| 7x4x0,75                                                                                                                          | 18,7                                               | 240                            | 488                                       |
| 3x4x1                                                                                                                             | 14,9                                               | 144                            | 292                                       |
| 5x4x1                                                                                                                             | 18,2                                               | 236                            | 449                                       |
| 7x4x1                                                                                                                             | 20,1                                               | 327                            | 589                                       |
| 3x4x1,5                                                                                                                           | 17,5                                               | 202                            | 381                                       |
| 5x4x1,5                                                                                                                           | 21,4                                               | 332                            | 585                                       |
| 7x4x1,5                                                                                                                           | 23,6                                               | 461                            | 779                                       |