



EPR insulated shipboard power flexible cable



Application

The cable is intended for power lighting and control system of shipboard and off-shore building such as oil platform. It is also available to metallurgical industry, chemical works, power plant and corporation mining etc

Standards applied

| | |
|-------------------|---------------------|
| IEC 60092-350、353 | Design |
| IEC 60228 | Conductor |
| IEC 60092-360 | Insulation & sheath |
| IEC 60332-1 | Flame Retardant |
| IEC 60332-3-22 | Flame Retardant |

Construction

| Components | Code | Material/Description |
|--------------------|------|---|
| Series code | C | Shipboard power cable |
| Conductor | | IEC 60228 Class 5 Stranded tinned annealed copper, IEC 60228 Class 5 |
| Insulation | E | EPR, IEC 60092-360 |
| Laying up | | Cores are laid up together |
| Sheath | F | PCP |
| | V | PVC |
| Construction | R | Flexible copper conductor |
| Outer sheath color | | Black, if any |
| Flammability | SA | Flame retardant |



CEFR/SA, CEVR/SA

| No. of cores x sectional area | CEFR/SA, CEVR/SA | | | CEPJR80/SC, CEPFR80/SC CEPJR90/SC, CEPFR90/SC | | | | CEPJR85/SC, CEPFR86/SC CEPJR95/SC, CEPFR96/SC | | | |
|-------------------------------|------------------|-----|----------------|--|---------------|----------------|-------|--|---------------|----------------|-------|
| | Over diam. mm | | Approx. weight | 外径 | | 约重 | | 外径 | | 约重 | |
| | Nom. | ± | | kg/km | Over diam. mm | Approx. weight | 80系列 | 90系列 | Over diam. mm | Approx. weight | 85系列 |
| | | | Nom. | | ± | kg/km | kg/km | Nom. | ± | kg/km | kg/km |
| 1 x 1 | 5.5 | 0.5 | 39 | 6.5 | 0.5 | 69 | 70 | 8.6 | 0.5 | 104 | 100 |
| 1 x 1.5 | 5.8 | 0.5 | 45 | 6.8 | 0.5 | 77 | 78 | 8.9 | 0.5 | 114 | 110 |
| 1 x 2.5 | 6.1 | 0.5 | 58 | 7.1 | 0.5 | 91 | 93 | 9.2 | 0.5 | 130 | 126 |
| 1 x 4 | 6.8 | 0.5 | 77 | 7.8 | 0.5 | 113 | 114 | 9.9 | 0.5 | 155 | 150 |
| 1 x 6 | 7.7 | 0.5 | 102 | 8.7 | 0.5 | 143 | 145 | 10.8 | 0.6 | 189 | 184 |
| 1 x 10 | 9.0 | 0.5 | 158 | 10.0 | 0.5 | 206 | 208 | 12.1 | 0.7 | 265 | 259 |
| 1 x 16 | 10.2 | 0.6 | 216 | 11.7 | 0.6 | 298 | 297 | 14.0 | 0.7 | 365 | 355 |
| 1 x 25 | 12.1 | 0.7 | 323 | 13.6 | 0.7 | 421 | 419 | 15.9 | 0.8 | 498 | 486 |
| 1 x 35 | 14.2 | 0.8 | 429 | 15.7 | 0.8 | 538 | 537 | 18.2 | 1.0 | 632 | 619 |
| 1 x 50 | 16.6 | 0.9 | 604 | 18.1 | 1.0 | 731 | 729 | 20.6 | 1.1 | 839 | 823 |
| 1 x 70 | 18.6 | 1.0 | 821 | 20.1 | 1.1 | 963 | 961 | 22.8 | 1.1 | 1093 | 1076 |
| 1 x 95 | 20.9 | 1.1 | 1073 | 22.4 | 1.1 | 1234 | 1231 | 25.1 | 1.3 | 1378 | 1358 |
| 1 x 120 | 22.5 | 1.1 | 1338 | 24.0 | 1.1 | 1511 | 1508 | 26.9 | 1.3 | 1679 | 1657 |
| 1 x 150 | 25.0 | 1.1 | 1646 | 26.5 | 1.3 | 1838 | 1835 | 29.5 | 1.3 | 2021 | 1997 |
| 1 x 185 | 28.1 | 1.3 | 2029 | 29.6 | 1.3 | 2246 | 2242 | 32.8 | 1.5 | 2466 | 2440 |
| 1 x 240 | 31.2 | 1.5 | 2630 | 32.7 | 1.5 | 2870 | 2866 | 36.1 | 1.7 | 3129 | 3100 |
| 1 x 300 | 33.8 | 1.5 | 3216 | 35.3 | 1.7 | 3473 | 3469 | 38.9 | 1.7 | 3767 | 3735 |
| 2 x 1 | 9.1 | 0.5 | 92 | 10.1 | 0.6 | 141 | 143 | 12.2 | 0.7 | 200 | 194 |
| 2 x 1.5 | 9.7 | 0.5 | 108 | 10.7 | 0.6 | 160 | 162 | 13.0 | 0.7 | 222 | 216 |
| 2 x 2.5 | 10.7 | 0.6 | 137 | 12.2 | 0.7 | 223 | 222 | 14.5 | 0.8 | 292 | 281 |
| 2 x 4 | 11.9 | 0.6 | 186 | 13.4 | 0.7 | 282 | 281 | 15.7 | 0.8 | 358 | 347 |
| 2 x 6 | 13.9 | 0.7 | 255 | 15.4 | 0.8 | 367 | 365 | 17.9 | 0.9 | 462 | 449 |
| 2 x 10 | 16.4 | 0.9 | 379 | 17.9 | 0.9 | 509 | 507 | 20.4 | 1.1 | 619 | 603 |
| 2 x 16 | 18.9 | 1.0 | 523 | 20.4 | 1.1 | 671 | 669 | 23.1 | 1.1 | 805 | 787 |
| 2 x 25 | 22.8 | 1.1 | 786 | 24.3 | 1.1 | 965 | 962 | 27.2 | 1.3 | 1137 | 1115 |
| 2 x 35 | 26.9 | 1.3 | 1050 | 28.4 | 1.3 | 1253 | 1250 | 31.6 | 1.5 | 1461 | 1436 |
| 2 x 50 | 31.7 | 1.5 | 1481 | 33.2 | 1.5 | 1722 | 1718 | 36.6 | 1.7 | 1981 | 1952 |
| 2 x 70 | 35.6 | 1.7 | 1981 | 37.1 | 1.7 | 2251 | 2246 | 40.7 | 1.9 | 2559 | 2526 |
| 2 x 95 | 40.1 | 1.9 | 2589 | 41.6 | 1.9 | 2894 | 2889 | 45.4 | 2.1 | 3261 | 3224 |
| 2 x 120 | 43.3 | 1.9 | 3188 | 44.8 | 1.9 | 3517 | 3512 | 48.8 | 2.1 | 3935 | 3894 |
| 2 x 1+E | 9.7 | 0.5 | 103 | 10.7 | 0.6 | 154 | 156 | 13.0 | 0.7 | 216 | 210 |
| 2 x 1.5+E | 10.4 | 0.6 | 122 | 11.9 | 0.6 | 206 | 205 | 14.2 | 0.8 | 274 | 264 |
| 2 x 2.5+E | 11.4 | 0.6 | 165 | 12.9 | 0.7 | 257 | 256 | 15.2 | 0.8 | 331 | 320 |
| 2 x 4+E | 12.7 | 0.7 | 220 | 14.2 | 0.8 | 322 | 321 | 16.5 | 0.9 | 411 | 399 |
| 2 x 6+E | 14.8 | 0.8 | 329 | 16.3 | 0.9 | 447 | 445 | 18.8 | 1.0 | 548 | 533 |
| 2 x 10+E | 17.6 | 0.9 | 506 | 19.1 | 1.0 | 646 | 644 | 21.8 | 1.1 | 773 | 756 |
| 2 x 16+E | 20.3 | 1.1 | 701 | 21.8 | 1.1 | 861 | 859 | 24.5 | 1.1 | 1005 | 985 |
| 3 x 25+E | 26.3 | 1.3 | 1261 | 27.8 | 1.3 | 1466 | 1462 | 31.0 | 1.5 | 1675 | 1650 |
| 3 x 35+E | 30.5 | 1.5 | 1740 | 32.0 | 1.5 | 1977 | 1973 | 35.4 | 1.7 | 2234 | 2205 |
| 3 x 50+E | 34.7 | 1.5 | 2299 | 36.2 | 1.7 | 2569 | 2564 | 39.8 | 1.7 | 2876 | 2843 |
| 3 x 70+E | 40.6 | 1.9 | 3178 | 42.1 | 1.9 | 3493 | 3488 | 45.9 | 2.1 | 3871 | 3832 |
| 3 x 95+E | 45.8 | 2.1 | 4182 | 47.3 | 2.1 | 4537 | 4531 | 51.5 | 2.3 | 5009 | 4965 |
| 3 x 120+E | 50.2 | 2.3 | 5279 | 51.7 | 2.3 | 5667 | 5661 | 56.1 | 2.5 | 6208 | 6161 |
| 3 x 1 | 9.7 | 0.5 | 103 | 10.7 | 0.6 | 154 | 156 | 13.0 | 0.7 | 216 | 210 |
| 3 x 1.5 | 10.4 | 0.6 | 122 | 11.9 | 0.6 | 206 | 205 | 14.2 | 0.8 | 274 | 264 |
| 3 x 2.5 | 11.4 | 0.6 | 165 | 12.9 | 0.7 | 257 | 256 | 15.2 | 0.8 | 331 | 320 |
| 3 x 4 | 12.7 | 0.7 | 220 | 14.2 | 0.8 | 322 | 321 | 16.5 | 0.9 | 411 | 399 |
| 3 x 6 | 14.8 | 0.8 | 329 | 16.3 | 0.9 | 447 | 445 | 18.8 | 1.0 | 548 | 533 |
| 3 x 10 | 17.6 | 0.9 | 506 | 19.1 | 1.0 | 646 | 644 | 21.8 | 1.1 | 773 | 756 |
| 3 x 16 | 20.3 | 1.1 | 701 | 21.8 | 1.1 | 861 | 859 | 24.5 | 1.1 | 1005 | 985 |
| 3 x 25 | 24.5 | 1.1 | 1048 | 26.0 | 1.3 | 1239 | 1236 | 29.0 | 1.3 | 1422 | 1398 |
| 3 x 35 | 29.0 | 1.3 | 1418 | 30.5 | 1.5 | 1637 | 1633 | 33.7 | 1.5 | 1859 | 1833 |
| 3 x 50 | 34.1 | 1.5 | 2002 | 35.6 | 1.7 | 2261 | 2256 | 39.2 | 1.7 | 2556 | 2525 |
| 3 x 70 | 38.3 | 1.7 | 2698 | 39.8 | 1.7 | 2988 | 2983 | 43.6 | 1.9 | 3337 | 3302 |
| 3 x 95 | 43.2 | 1.9 | 3534 | 44.7 | 1.9 | 3862 | 3856 | 48.7 | 2.1 | 4277 | 4237 |
| 3 x 120 | 46.7 | 2.1 | 4373 | 48.2 | 2.1 | 4728 | 4722 | 52.4 | 2.3 | 5198 | 5155 |
| 3 x 150 | 52.0 | 2.3 | 5433 | 53.5 | 2.3 | 5829 | 5822 | 57.9 | 2.5 | 6378 | 6330 |
| 3 x 185 | 58.8 | 2.5 | 6712 | 60.3 | 3.0 | 7160 | 7152 | 65.1 | 3.0 | 7840 | 7785 |

CEFR/SA, CEVR/SA

| No. of cores x sectional area | CEFR/SA, CEVR/SA | | CEPJR80/SC, CEPFR80/SC CEPJR90/SC, CEPFR90/SC | | | | CEPJR85/SC, CEPFR86/SC CEPJR95/SC, CEPFR96/SC | | | | |
|-------------------------------|------------------|-----|--|---------------|-------|----------------|--|---------------|-------|----------------|------|
| | Over diam. mm | | Approx. weight | 外径 | | 约重 | | 外径 | | 约重 | |
| | Nom. | ± | | Over diam. mm | | Approx. weight | | Over diam. mm | | Approx. weight | |
| | | | kg/km | 标称 | 公差 | 80系列 | 90系列 | 标称 | 公差 | 85系列 | 95系列 |
| No. x mm ² | | | Nom. | ± | kg/km | kg/km | Nom. | ± | kg/km | kg/km | |
| 4 x 1 | 10.7 | 0.6 | 139 | 12.2 | 0.7 | 224 | 223 | 14.5 | 0.8 | 293 | 283 |
| 4 x 1.5 | 11.4 | 0.6 | 171 | 12.9 | 0.7 | 264 | 262 | 15.2 | 0.8 | 338 | 327 |
| 4 x 2.5 | 12.6 | 0.7 | 223 | 14.1 | 0.8 | 323 | 322 | 16.4 | 0.9 | 403 | 390 |
| 4 x 4 | 14.0 | 0.7 | 306 | 15.5 | 0.8 | 419 | 418 | 18.0 | 0.9 | 516 | 502 |
| 4 x 6 | 16.4 | 0.9 | 416 | 17.9 | 0.9 | 546 | 544 | 20.4 | 1.1 | 656 | 640 |
| 4 x 10 | 19.6 | 1.0 | 653 | 21.1 | 1.1 | 809 | 806 | 23.8 | 1.1 | 949 | 930 |
| 4 x 16 | 22.5 | 1.1 | 907 | 24.0 | 1.1 | 1084 | 1081 | 26.9 | 1.3 | 1254 | 1233 |
| 4 x 25 | 27.2 | 1.3 | 1358 | 28.7 | 1.3 | 1571 | 1567 | 31.9 | 1.5 | 1787 | 1761 |
| 4 x 35 | 32.2 | 1.5 | 1839 | 33.7 | 1.5 | 2082 | 2078 | 37.1 | 1.7 | 2344 | 2314 |
| 4 x 50 | 38.0 | 1.7 | 2599 | 39.5 | 1.7 | 2885 | 2880 | 43.1 | 1.9 | 3231 | 3196 |
| 4 x 70 | 42.7 | 1.9 | 3528 | 44.2 | 1.9 | 3851 | 3846 | 48.2 | 2.1 | 4261 | 4221 |
| 4 x 95 | 48.1 | 2.1 | 4618 | 49.6 | 2.1 | 4984 | 4978 | 53.8 | 2.3 | 5469 | 5424 |
| 4 x 120 | 52.1 | 2.3 | 5722 | 53.6 | 2.3 | 6117 | 6110 | 58.0 | 2.5 | 6666 | 6618 |
| 4 x 150 | 58.1 | 2.5 | 7105 | 59.6 | 2.5 | 7546 | 7539 | 64.2 | 3.0 | 8216 | 8162 |
| 5 x 1 | 11.7 | 0.6 | 169 | 13.2 | 0.7 | 270 | 268 | 15.5 | 0.8 | 357 | 345 |
| 7 x 1 | 12.8 | 0.7 | 219 | 14.3 | 0.8 | 328 | 326 | 16.6 | 0.9 | 422 | 408 |
| 10 x 1 | 16.4 | 0.9 | 319 | 17.9 | 0.9 | 459 | 457 | 20.4 | 1.1 | 587 | 570 |
| 12 x 1 | 17.0 | 0.9 | 366 | 18.5 | 1.0 | 511 | 509 | 21.0 | 1.1 | 643 | 625 |
| 14 x 1 | 18.0 | 0.9 | 423 | 19.5 | 1.0 | 577 | 574 | 22.2 | 1.1 | 715 | 697 |
| 16 x 1 | 19.1 | 1.0 | 474 | 20.6 | 1.1 | 636 | 634 | 23.3 | 1.1 | 793 | 774 |
| 19 x 1 | 20.2 | 1.1 | 547 | 21.7 | 1.1 | 717 | 714 | 24.4 | 1.1 | 882 | 861 |
| 24 x 1 | 23.8 | 1.1 | 701 | 25.3 | 1.3 | 904 | 900 | 28.3 | 1.3 | 1110 | 1086 |
| 27 x 1 | 24.4 | 1.1 | 771 | 25.9 | 1.3 | 978 | 975 | 28.9 | 1.3 | 1189 | 1164 |
| 30 x 1 | 25.4 | 1.3 | 855 | 26.9 | 1.3 | 1070 | 1066 | 29.9 | 1.3 | 1289 | 1263 |
| 33 x 1 | 26.4 | 1.3 | 929 | 27.9 | 1.3 | 1152 | 1149 | 31.1 | 1.5 | 1395 | 1368 |
| 37 x 1 | 27.5 | 1.3 | 1025 | 29.0 | 1.3 | 1257 | 1253 | 32.2 | 1.5 | 1508 | 1479 |
| 5 x 1.5 | 12.4 | 0.7 | 154 | 13.9 | 0.7 | 236 | 235 | 16.2 | 0.9 | 303 | 293 |
| 7 x 1.5 | 13.6 | 0.7 | 207 | 15.1 | 0.8 | 298 | 297 | 17.6 | 0.9 | 371 | 360 |
| 10 x 1.5 | 17.6 | 0.9 | 295 | 19.1 | 1.0 | 409 | 408 | 21.8 | 1.1 | 507 | 493 |
| 12 x 1.5 | 18.2 | 1.0 | 342 | 19.7 | 1.0 | 460 | 458 | 22.4 | 1.1 | 561 | 546 |
| 14 x 1.5 | 19.3 | 1.0 | 390 | 20.8 | 1.1 | 513 | 512 | 23.5 | 1.1 | 618 | 603 |
| 16 x 1.5 | 20.4 | 1.1 | 438 | 21.9 | 1.1 | 568 | 566 | 24.6 | 1.1 | 678 | 662 |
| 19 x 1.5 | 21.6 | 1.1 | 517 | 23.1 | 1.1 | 655 | 653 | 26.0 | 1.3 | 781 | 764 |
| 24 x 1.5 | 25.6 | 1.3 | 653 | 27.1 | 1.3 | 815 | 813 | 30.3 | 1.5 | 973 | 953 |
| 27 x 1.5 | 26.2 | 1.3 | 722 | 27.7 | 1.3 | 887 | 884 | 30.9 | 1.5 | 1047 | 1027 |
| 30 x 1.5 | 27.3 | 1.3 | 793 | 28.8 | 1.3 | 964 | 962 | 32.0 | 1.5 | 1130 | 1109 |
| 33 x 1.5 | 28.4 | 1.3 | 874 | 29.9 | 1.3 | 1053 | 1050 | 33.1 | 1.5 | 1225 | 1203 |
| 37 x 1.5 | 29.5 | 1.3 | 968 | 31.0 | 1.5 | 1154 | 1151 | 34.4 | 1.5 | 1332 | 1310 |
| 5 x 2.5 | 13.8 | 0.7 | 251 | 15.3 | 0.8 | 360 | 358 | 17.8 | 0.9 | 454 | 441 |
| 7 x 2.5 | 15.1 | 0.8 | 337 | 16.6 | 0.9 | 457 | 456 | 19.1 | 1.0 | 559 | 545 |
| 10 x 2.5 | 19.6 | 1.0 | 488 | 21.1 | 1.1 | 643 | 640 | 23.8 | 1.1 | 782 | 763 |
| 12 x 2.5 | 20.3 | 1.1 | 567 | 21.8 | 1.1 | 727 | 724 | 24.5 | 1.1 | 870 | 851 |
| 14 x 2.5 | 21.5 | 1.1 | 647 | 23.0 | 1.1 | 815 | 812 | 25.9 | 1.3 | 977 | 956 |
| 16 x 2.5 | 22.7 | 1.1 | 739 | 24.2 | 1.1 | 917 | 914 | 27.1 | 1.3 | 1088 | 1067 |
| 19 x 2.5 | 24.1 | 1.1 | 858 | 25.6 | 1.3 | 1045 | 1042 | 28.6 | 1.3 | 1225 | 1202 |
| 24 x 2.5 | 28.5 | 1.3 | 1095 | 30.0 | 1.3 | 1317 | 1314 | 33.2 | 1.5 | 1543 | 1516 |
| 27 x 2.5 | 29.2 | 1.3 | 1211 | 30.7 | 1.5 | 1437 | 1434 | 33.9 | 1.5 | 1683 | 1656 |
| 30 x 2.5 | 30.4 | 1.5 | 1343 | 31.9 | 1.5 | 1580 | 1576 | 35.3 | 1.7 | 1836 | 1807 |
| 33 x 2.5 | 31.6 | 1.5 | 1464 | 33.1 | 1.5 | 1710 | 1706 | 36.5 | 1.7 | 1975 | 1945 |
| 37 x 2.5 | 32.9 | 1.5 | 1635 | 34.4 | 1.5 | 1892 | 1888 | 37.8 | 1.7 | 2186 | 2154 |