



Offshore and
Onshore RIG
Cables

IEEE 1580 Type P MOR[®] Polyrad[®] XT-125, Unarmored



Flexible Multi-Conductor Power Unarmored 600 V/1000 V



Product Construction:

1. Conductor:

- 8 AWG thru 777 kcmil soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad[®] XT-125 Irradiated Cross-linked Polyolefin (XLPO)
- Color Code: Per IEEE 1580 Table 22

3. Cable Core:

- Cabled with fillers when required
- Core binder tape when required

4. Sheath:

- Mud Oil-Resistant, Black Irradiated Cross-linked Chlorinated Polyethylene (XL-CPE)

5. Print: (Including but not limited to)

- MOR[®] POLYRAD[®] XT-125 (UL) E85994 BR782 110C XX/C XXAWG TC-ER¹ XHHW -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V 600 V RW90 XLPE TC -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

¹ ER for 3 conductors or more

6. Option:

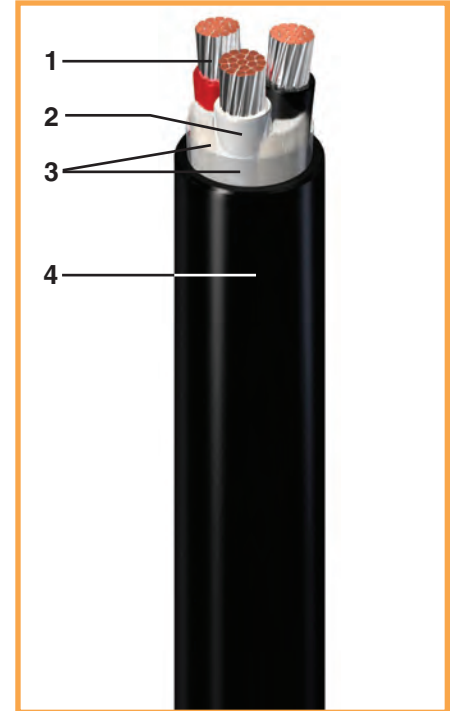
- Other color codes available upon request

Applications:

- Offshore oil and gas drilling platforms, MODUs, ships and FPSOs
- Land-based oil and gas drilling rigs
- Suitable for use in Class I, Division 2 and Zone 2 environments when installed in accordance with API-RP14F or NEC Article 501

Features:

- Meets NEK 606 mud oil resistance requirements with ester-based muds
- Meets UL 2225 crush and impact requirements of Type MC-HL cables
- Permitted for Exposed Run "ER" (open wiring) use in accordance with NEC for 3 conductors or more
- Flexible stranding to facilitate ease of cable installation and termination
- Temperature rated @ 125°C for long life, higher ampacities and protection from thermal overloads
- Meets cold bend test at -55°C
- Meets cold impact test at -40°C



Compliances:

Industry:

- API-RP14F
- CSA C22.2 No. 38 Type RW90
- CSA C22.2 No. 230 Type TC
- CSA C22.2 No. 245 Type X110
- IEEE 1580-2010 Type P
- IEC 60092-350
- Mud oil-resistant
- UL 1309 Type X110
- UL Listed 110°C Marine Shipboard Cable

Flame Test:

- IEEE 1202
- IEC 60332-3-22 Cat. A (supersedes IEC 60332-3A)
- CSA C22.2 No. 0.3 FT4



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| CATALOG NUMBER | # OF CORES | COND. SIZE (AWG) | NOMINAL CABLE DIAMETER | | COPPER WEIGHT | | NET WEIGHT | | AMPACITIES ¹ 45°C AMBIENT-SINGLE BANKED | | | |
|---------------------------|------------|------------------|------------------------|-------|---------------|-------|-------------|-------|--|-------|-------|-------|
| | | | INCHES | mm | LBS/1000 FT | kg/km | LBS/1000 FT | kg/km | 95°C | 100°C | 110°C | 125°C |
| 651810 | 2 | 8 | 0.590 | 14.99 | 92 | 137 | 248 | 369 | 62 | 64 | 69 | 77 |
| 667730 | 2 | 6 | 0.665 | 16.89 | 153 | 228 | 349 | 519 | 82 | 85 | 91 | 111 |
| 356320 | 2 | 5 | 0.800 | 20.32 | 233 | 347 | 503 | 748 | 96 | 101 | 109 | 147 |
| 652820 | 2 | 4 | 0.885 | 22.48 | 249 | 371 | 575 | 856 | 105 | 110 | 118 | 153 |
| 684820 | 2 | 3 | 0.930 | 23.62 | 337 | 501 | 700 | 1042 | 126 | 132 | 141 | 180 |
| 661710 | 2 | 2 | 0.975 | 24.77 | 388 | 577 | 780 | 1161 | 143 | 149 | 160 | 196 |
| 356330 | 2 | 1 | 1.155 | 29.34 | 537 | 799 | 1082 | 1610 | 162 | 174 | 186 | 245 |
| 672720 | 2 | 1/0 | 1.225 | 31.12 | 716 | 1065 | 1324 | 1970 | 191 | 199 | 213 | 278 |
| 356400 | 2 | 2/0 | 1.345 | 34.16 | 830 | 1235 | 1548 | 2303 | 232 | 242 | 259 | 309 |
| 286410 | 2 | 3/0 | 1.500 | 38.10 | 1193 | 1775 | 1997 | 2972 | 255 | 265 | 284 | 382 |
| 661720 | 2 | 4/0 | 1.575 | 40.01 | 1340 | 1994 | 2205 | 3281 | 295 | 307 | 329 | 432 |
| 356340 | 2 | 262 | 1.745 | 44.32 | 1618 | 2408 | 2718 | 4044 | 345 | 358 | 378 | 481 |
| 356350 | 2 | 313 | 1.855 | 47.12 | 1878 | 2794 | 3099 | 4611 | 378 | 391 | 420 | 539 |
| 356360 | 2 | 444 | 2.090 | 53.09 | 2691 | 4004 | 4185 | 6227 | 486 | 504 | 556 | 669 |
| 356370 | 2 | 535 | 2.325 | 59.06 | 3243 | 4826 | 5131 | 7635 | 546 | 566 | 625 | 741 |
| 356380 | 2 | 646 | 2.495 | 63.37 | 3827 | 5695 | 5745 | 8549 | 603 | 625 | 649 | 944 |
| 356390 | 2 | 777 | 2.600 | 66.04 | 4628 | 6886 | 7043 | 10480 | 674 | 699 | 784 | 951 |
| X648700 | 3 | 8 | 0.620 | 15.75 | 138 | 205 | 298 | 443 | 50 | 52 | 56 | 63 |
| 274820 | 3 | 6 | 0.705 | 17.91 | 230 | 342 | 426 | 634 | 67 | 70 | 75 | 91 |
| 652830 | 3 | 5 | 0.895 | 22.73 | 350 | 521 | 656 | 976 | 78 | 82 | 88 | 120 |
| 648670 | 3 | 4 | 0.935 | 23.75 | 374 | 557 | 717 | 1067 | 87 | 92 | 99 | 126 |
| 356410 | 3 | 3 | 0.990 | 25.15 | 505 | 751 | 879 | 1308 | 103 | 108 | 116 | 148 |
| 652840 | 3 | 2 | 1.035 | 26.29 | 581 | 865 | 981 | 1460 | 116 | 122 | 131 | 161 |
| 652970 | 3 | 1 | 1.225 | 31.12 | 806 | 1199 | 1351 | 2010 | 137 | 143 | 153 | 202 |
| 659380 | 3 | 1/0 | 1.300 | 33.02 | 1074 | 1598 | 1687 | 2510 | 157 | 164 | 176 | 229 |
| 648660 | 3 | 2/0 | 1.435 | 36.45 | 1245 | 1853 | 1967 | 2927 | 180 | 188 | 201 | 254 |
| 652860 | 3 | 3/0 | 1.605 | 40.77 | 1790 | 2664 | 2670 | 3973 | 209 | 218 | 233 | 313 |
| 652870 | 3 | 4/0 | 1.740 | 44.20 | 2009 | 2989 | 3029 | 4507 | 242 | 252 | 270 | 354 |
| 293900 | 3 | 262 | 1.860 | 47.24 | 2426 | 3610 | 3615 | 5379 | 283 | 294 | 310 | 395 |
| 661740 | 3 | 313 | 1.975 | 50.17 | 2817 | 4192 | 4131 | 6147 | 309 | 321 | 345 | 442 |
| 652910 | 3 | 373 | 2.120 | 53.85 | 3346 | 4979 | 4814 | 7163 | 361 | 375 | 406 | 492 |
| 660410 | 3 | 444 | 2.225 | 56.52 | 4037 | 6007 | 5623 | 8367 | 396 | 411 | 454 | 549 |
| 656050 | 3 | 535 | 2.485 | 63.12 | 4865 | 7239 | 6868 | 10220 | 448 | 465 | 511 | 608 |
| 352510 | 3 | 646 | 2.660 | 67.56 | 5740 | 8541 | 7983 | 11879 | 492 | 510 | 525 | 678 |
| 14442.037000 ² | 3 | 777 | 2.925 | 74.30 | 6942 | 10330 | 9641 | 14346 | 552 | 573 | 640 | 750 |

Note: Dimensions and weights are nominal; subject to industry tolerances.

¹Reference Ampacity section

²Thermoset CPE jacket (XL-CPE) not tested to NEK 606 Mud Oil Resistance.



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|---------------------------|------------|------------------|------------------------|-------|---------------|-------|-------------|-------|--|-------|-------|-------|
| | | | INCHES | mm | LBS/1000 FT | kg/km | LBS/1000 FT | kg/km | 95°C | 100°C | 110°C | 125°C |
| 658510 | 4 | 8 | 0.680 | 17.27 | 183 | 272 | 365 | 543 | 40 | 42 | 45 | 50 |
| 646070 | 4 | 6 | 0.775 | 19.69 | 306 | 455 | 529 | 787 | 54 | 56 | 60 | 73 |
| 652920 | 4 | 5 | 0.985 | 25.02 | 465 | 692 | 808 | 1202 | 62 | 66 | 70 | 96 |
| 648680 | 4 | 4 | 1.030 | 26.16 | 499 | 743 | 919 | 1367 | 70 | 74 | 79 | 101 |
| 667720 | 4 | 3 | 1.085 | 27.56 | 673 | 1001 | 1085 | 1614 | 82 | 86 | 93 | 118 |
| 646080 | 4 | 2 | 1.135 | 28.83 | 775 | 1153 | 1217 | 1811 | 93 | 98 | 105 | 129 |
| 652770 | 4 | 1 | 1.355 | 34.42 | 1074 | 1598 | 1702 | 2533 | 110 | 114 | 122 | 162 |
| 646090 | 4 | 1/0 | 1.435 | 36.45 | 1432 | 2131 | 2119 | 3153 | 126 | 131 | 141 | 183 |
| 646100 | 4 | 2/0 | 1.590 | 40.39 | 1661 | 2472 | 2447 | 3641 | 144 | 150 | 161 | 203 |
| 664920 | 4 | 3/0 | 1.845 | 46.86 | 2387 | 3552 | 3421 | 5090 | 167 | 174 | 186 | 250 |
| 274810 | 4 | 4/0 | 1.920 | 48.77 | 2679 | 3986 | 3797 | 5650 | 194 | 202 | 216 | 283 |
| 646110 | 4 | 262 | 2.055 | 52.20 | 3235 | 4814 | 4538 | 6753 | 226 | 235 | 248 | 316 |
| 356420 | 4 | 313 | 2.185 | 55.50 | 3756 | 5589 | 5165 | 7686 | 247 | 257 | 276 | 354 |
| 356430 | 4 | 373 | 2.340 | 59.44 | 4461 | 6638 | 6020 | 8958 | 289 | 300 | 325 | 394 |
| 296160 | 4 | 444 | 2.460 | 62.48 | 5382 | 8008 | 7090 | 10550 | 317 | 329 | 363 | 439 |
| 387880 | 4 | 535 | 2.815 | 71.50 | 6646 | 9889 | 8735 | 12998 | 358 | 372 | 409 | 486 |
| 387890 | 4 | 646 | 3.015 | 76.58 | 7653 | 11388 | 10215 | 15200 | 394 | 408 | 420 | 542 |
| 14442.047000 ² | 4 | 777 | 3.245 | 82.42 | 9256 | 13773 | 12150 | 18079 | 442 | 458 | 512 | 600 |
| 672740 | 5 | 8 | 0.750 | 19.05 | 229 | 341 | 444 | 661 | 40 | 42 | 45 | 50 |
| 356440 | 5 | 6 | 0.895 | 22.73 | 383 | 570 | 680 | 1012 | 54 | 56 | 60 | 73 |
| 356450 | 5 | 5 | 1.075 | 27.31 | 581 | 865 | 990 | 1473 | 62 | 66 | 70 | 96 |
| 665900 | 5 | 4 | 1.135 | 28.83 | 623 | 927 | 1075 | 1600 | 70 | 74 | 79 | 101 |
| 356460 | 5 | 3 | 1.195 | 30.35 | 842 | 1253 | 1337 | 1989 | 82 | 86 | 93 | 118 |
| 348300 | 5 | 2 | 1.255 | 31.88 | 969 | 1442 | 1510 | 2247 | 93 | 98 | 105 | 129 |
| 356470 | 5 | 1 | 1.495 | 37.97 | 1535 | 2284 | 2084 | 3101 | 110 | 114 | 122 | 162 |
| 356480 | 5 | 1/0 | 1.595 | 40.51 | 1790 | 2664 | 2624 | 3905 | 126 | 131 | 141 | 183 |
| 356490 | 5 | 2/0 | 1.820 | 46.23 | 2076 | 3089 | 3130 | 4657 | 144 | 150 | 161 | 203 |
| 356500 | 5 | 3/0 | 2.035 | 51.69 | 2983 | 4439 | 4224 | 6285 | 167 | 174 | 186 | 250 |
| 356510 | 5 | 4/0 | 2.120 | 53.85 | 3349 | 4983 | 4680 | 6964 | 194 | 202 | 216 | 283 |
| 356520 | 5 | 262 | 2.275 | 57.79 | 4044 | 6017 | 5597 | 8328 | 226 | 235 | 248 | 316 |
| 356530 | 5 | 313 | 2.420 | 61.47 | 4695 | 6986 | 6401 | 9525 | 247 | 257 | 276 | 354 |
| 387900 | 5 | 373 | 2.590 | 65.79 | 5780 | 8601 | 7459 | 11099 | 289 | 300 | 325 | 394 |
| 387910 | 5 | 444 | 2.730 | 69.34 | 6728 | 10011 | 8783 | 13069 | 317 | 329 | 363 | 439 |
| 14442.056600 ² | 5 | 535 | 3.115 | 79.12 | 8108 | 12065 | 10909 | 16233 | 358 | 372 | 420 | 486 |

Note: Dimensions and weights are nominal; subject to industry tolerances.

¹Reference Ampacity section

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