



Offshore and
Onshore RIG
Cables

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



Flexible Triad Signal Cable
Individually/Overall Shielded, Unarmored
600 V/1000 V



Product Construction:

1. Conductor:

- 18 AWG and 16 AWG soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad[®] XT-125 Irradiated Cross-linked Polyolefin (XLPO)
- Color Code: Black, white and red with printed numbers

3. Individually Shielded Triads:

- Aluminum/polymer tape and tinned copper drain wire

4. Cable Core:

- Core binder tape when required

5. Overall Shield:

- Overall aluminum/polymer tape with tinned copper drain wire

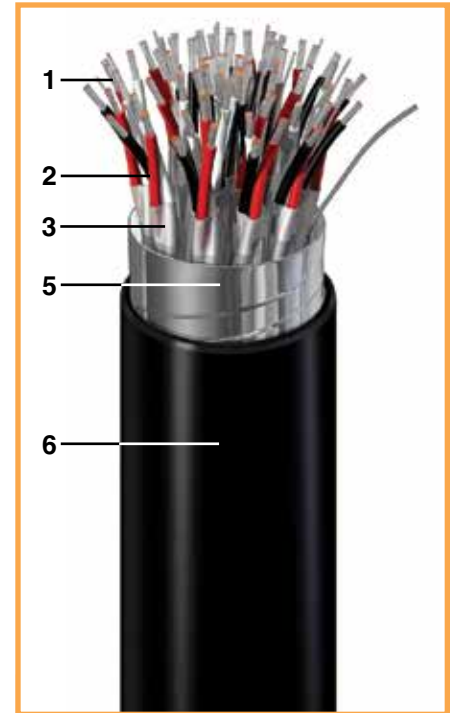
6. Sheath:

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

7. Print: (Including but not limited to)

- MOR[®] POLYRAD[®] XT-125 (UL) E85994 BR782 110C XX/TRI XXAWG
TC-ER-HL¹ RFHH-2 -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V
600 V XLPE TC -- IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG
SEQUENTIAL FOOTAGE MARK

¹ TC-ER-HL for O.D. of 1.00" or less



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
- TC-ER-HL is suitable for use in Class I, Division 1 and Zone 1 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, Hazardous Location "ER-HL" use in accordance with NEC for 3 conductors or more and O.D. of 1.00" or less
- 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. 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
- UL 2225 Type TC-ER-HL

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 TRIADS | 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 |
| 358460 | 1 | 18 | 0.375 | 9.53 | 22 | 33 | 81 | 121 | 11 | 12 | 13 | - |
| 358470 | 2 | 18 | 0.610 | 15.49 | 48 | 71 | 205 | 305 | 8 | 9 | 10 | - |
| 358480 | 3 | 18 | 0.635 | 16.13 | 71 | 106 | 229 | 341 | 7 | 8 | 9 | - |
| 358490 | 4 | 18 | 0.695 | 17.65 | 93 | 138 | 269 | 400 | 5 | 6 | 7 | - |
| 358500 | 5 | 18 | 0.770 | 19.56 | 115 | 171 | 324 | 482 | 5 | 6 | 7 | - |
| 358510 | 6 | 18 | 0.875 | 22.23 | 137 | 204 | 403 | 600 | 5 | 6 | 7 | - |
| 358520 | 7 | 18 | 0.875 | 22.23 | 160 | 238 | 430 | 640 | 4 | 5 | 6 | - |
| 358530 | 8 | 18 | 0.945 | 24.00 | 182 | 271 | 481 | 716 | 4 | 5 | 6 | - |
| 358540 | 12 | 18 | 1.150 | 29.21 | 271 | 403 | 643 | 957 | 4 | 5 | 6 | - |
| 358550 | 16 | 18 | 1.275 | 32.39 | 360 | 536 | 810 | 1205 | 3 | 4 | 5 | - |
| 358560 | 1 | 16 | 0.385 | 9.78 | 28 | 42 | 90 | 134 | 15 | 16 | 17 | 25 |
| 358570 | 2 | 16 | 0.630 | 16.00 | 61 | 91 | 229 | 341 | 12 | 13 | 14 | 22 |
| 358580 | 3 | 16 | 0.665 | 16.89 | 88 | 131 | 259 | 385 | 11 | 12 | 13 | 18 |
| 358590 | 4 | 16 | 0.730 | 18.54 | 116 | 173 | 305 | 454 | 8 | 9 | 10 | 14 |
| 358600 | 5 | 16 | 0.800 | 20.32 | 143 | 213 | 373 | 555 | 8 | 9 | 10 | 14 |
| 358610 | 6 | 16 | 0.915 | 23.24 | 171 | 254 | 454 | 676 | 8 | 9 | 10 | 14 |
| 358620 | 7 | 16 | 0.915 | 23.24 | 200 | 298 | 488 | 726 | 7 | 8 | 9 | 13 |
| 358630 | 8 | 16 | 1.000 | 25.40 | 227 | 338 | 549 | 817 | 7 | 8 | 9 | 13 |
| 358640 | 12 | 16 | 1.205 | 30.61 | 337 | 501 | 739 | 1100 | 6 | 7 | 8 | 9 |
| 358650 | 16 | 16 | 1.335 | 33.91 | 448 | 667 | 935 | 1391 | 5 | 6 | 7 | 9 |

Note: Dimensions and weights are nominal; subject to industry tolerances.
¹Reference Ampacity section