



Offshore and  
Marine Shipboard  
Cables

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



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



## 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:

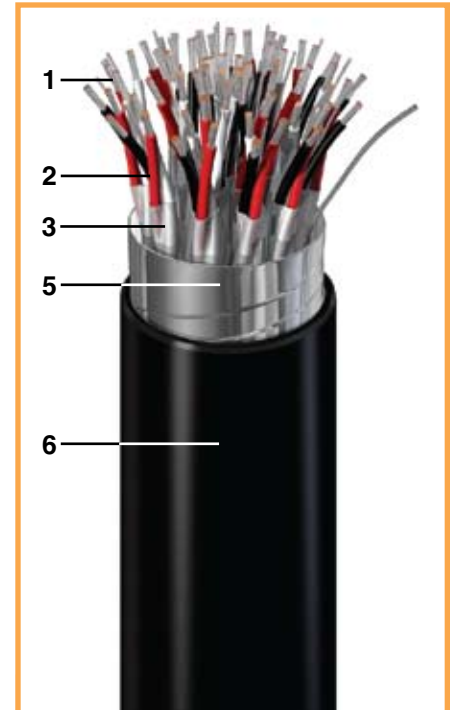
- Overall aluminum/polymer tape with tinned copper drain wire

### 6. Sheath:

- Mud Oil Resistant, Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

### 7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/TRI XXAWG OR TC RFHH-2 OR (CSA) 245/1309 FT4 -40C SR 600/1000V OR 600V RW75 XLPE TC OR IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



## 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

## Features:

- Meets NEK 606 mud oil resistance requirements including ester-based muds
- Meets UL 2225 crush and impact requirements of Type MC-HL cables
- 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. 245 Type X110
- IEEE 1580 Type P
- IEC 60092-3
- NEK 606 for mud oil resistance
- UL 1309 Type X110
- UL Listed 110°C Marine Shipboard Cable

### Flame Test:

- IEEE 383
- 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 (T-75198) | # OF TRIADS | COND. SIZE (AWG) | NOMINAL CABLE DIAMETER |       | NET WEIGHT  |       | AMPACITIES <sup>1</sup> 45°C AMBIENT-SINGLE BANKED |       |       |       |
|--------------------------|-------------|------------------|------------------------|-------|-------------|-------|----------------------------------------------------|-------|-------|-------|
|                          |             |                  | INCHES                 | mm    | LBS/1000 FT | kg/km | 95°C                                               | 100°C | 110°C | 125°C |
| 358460                   | 1           | 18               | 0.380                  | 9.65  | 91          | 135   | 11                                                 | 12    | 13    | -     |
| 358470                   | 2           | 18               | 0.610                  | 15.31 | 175         | 260   | 8                                                  | 9     | 10    | -     |
| 358480                   | 3           | 18               | 0.648                  | 16.46 | 226         | 336   | 7                                                  | 8     | 9     | -     |
| 358490                   | 4           | 18               | 0.707                  | 17.96 | 282         | 420   | 5                                                  | 6     | 7     | -     |
| 358500                   | 5           | 18               | 0.776                  | 19.71 | 341         | 507   | 5                                                  | 6     | 7     | -     |
| 358510                   | 6           | 18               | 0.848                  | 21.54 | 400         | 595   | 5                                                  | 6     | 7     | -     |
| 358520                   | 7           | 18               | 0.848                  | 21.54 | 445         | 662   | 4                                                  | 5     | 6     | -     |
| 358530                   | 8           | 18               | 0.935                  | 23.75 | 490         | 729   | 4                                                  | 5     | 6     | -     |
| 358540                   | 12          | 18               | 1.130                  | 28.70 | 547         | 814   | 4                                                  | 5     | 6     | -     |
| 358550                   | 16          | 18               | 1.255                  | 31.88 | 891         | 1326  | 3                                                  | 4     | 5     | -     |
| 358560                   | 1           | 16               | 0.395                  | 10.03 | 102         | 152   | 15                                                 | 16    | 17    | 25    |
| 358570                   | 2           | 16               | 0.639                  | 16.23 | 197         | 293   | 12                                                 | 13    | 14    | 22    |
| 358580                   | 3           | 16               | 0.679                  | 17.25 | 258         | 384   | 11                                                 | 12    | 13    | 18    |
| 358590                   | 4           | 16               | 0.742                  | 18.85 | 324         | 482   | 8                                                  | 9     | 10    | 14    |
| 358600                   | 5           | 16               | 0.815                  | 20.70 | 392         | 583   | 8                                                  | 9     | 10    | 14    |
| 358610                   | 6           | 16               | 1.000                  | 25.40 | 558         | 830   | 8                                                  | 9     | 10    | 14    |
| 358620                   | 7           | 16               | 1.000                  | 25.40 | 611         | 909   | 7                                                  | 8     | 9     | 13    |
| 358630                   | 8           | 16               | 1.078                  | 27.38 | 690         | 1027  | 7                                                  | 8     | 9     | 13    |
| 358640                   | 12          | 16               | 1.292                  | 32.82 | 978         | 1455  | 6                                                  | 7     | 8     | 9     |
| 358650                   | 16          | 16               | 1.428                  | 36.27 | 1241        | 1847  | 5                                                  | 6     | 7     | 9     |

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