

Type P Drilmar® 125-XE Signal & Instrumentation

Crosslinked Polyolefin Insulated, Drilling Rig and Marine Cable, 600/1000 V

Features

Engineered for easiest installation. Extra flexible stranding meets IEEE, UL, and CSA requirements.

Maximum conductor operating temperature: 100 °C as Type P per IEEE, and 110°C as Type X110 per UL and CSA. Meets ampacity ratings per ABS, DNV, LRS, and TCMS.

DRILMAR® XLPO Insulation:

- Superior oil and chemical resistance.
- Sunlight resistant.
- Rated at 125 °C.
- Passes Cold Bend at -55 °C.

Heavy Duty CP Jacket:

- Arctic Type XE design.
- Abrasion and sunlight resistant.
- Rated at 90 °C.

Completed cable offers superior flame resistance meeting:

- 70,000 Btu Flame Tests IEEE 1202/FT4, IEEE 383, UL 1685, IEC T-30-820, and IEC 332 Category A.
- 210,000 Btu Flame Test IEC T-29-520.

Arctic Type design meets Cold Bend and Impact Tests at -40 °C, exceeding the Transport Canada Marine Safety requirements.

Application

DRILMAR® 125-XE cables are specifically designed for the installation and use in marine environments, for use on offshore drilling rigs, aboard marine vessels, and on fixed and floating offshore facilities where harsh marine environments exist. These cables are used in control, indicating, communication, electronic and similar circuits

where multiple conductor cables are required.

Typical applications include:

Tank level indicators, fire and gas protection systems, communication systems, CO₂ Systems, and smoke detector.

Standards

IEEE 1580

Recommended Practice for Marine Cable for Use on Shipboard and Fixed and Floating Platforms.

IEEE 45

Recommended Practice for Electrical Installations on Shipboard Cable.

UL 1309

Marine Shipboard Cable.

CSA C22.2 No. 245

Marine Shipboard Cable.

Approvals

- UL and CSA, as Type P.
- UL and CSA, as Type X110.
- ABS, American Bureau of Shipping.
- DNV, Det Norske Veritas
- LRS, Lloyd's Register of Shipping.
- United States Coast Guard.
- TCMS, Transport Canada Marine Safety.

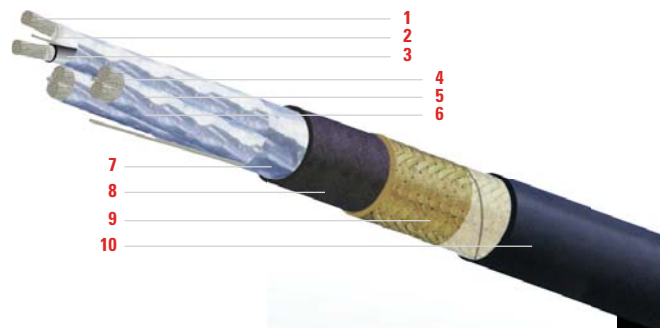
Engineering Information

1. Conductor: Soft annealed flexible Tin Coated Copper per IEEE, UL, and CSA.

Sizes: 22 AWG up to 10 AWG.

2. Separator Tape: Polyester tape as required.

3. Insulation: Flame retardant and sunlight resistant Crosslinked



Polyolefin (XLPO) per IEEE.

Also meets and exceeds the requirements of UL and CSA for Type X110. DRILMAR® 125-XE is a 125 °C XLPO.

4. Assembly: Insulated conductors twisted in pairs or triads.

5. Identification: Color coded with sequential printed numbers.

Pairs: Black and White.

Triads: Black, White and Red.

6. Cabling: Pairs/Triads cabled round with moisture and flame resistant fillers as required, and binder tape.

7. Optional Shielding: Individual and/or Overall Aluminum/ Polyester tape, with drain wire, 100% coverage.

8. Jacket: Flame retardant and sunlight resistant Arctic Type Chlorosulfonated Polyethylene (CP) per IEEE, UL and CSA.

9. Armor (optional): Standard - Bronze.

Optional - Aluminum or Tinned Copper Braid per IEEE, UL and CSA.

10. Overall Sheath (optional): Flame retardant and sunlight resistant Arctic Type Chlorinated Polyethylene (CPE) per IEEE, UL, and CSA.

Note: Overall Jacket is optional for Bronze armor only, Tinned Copper armor and Aluminum armor require the use of outer jacket.

Technical Data

Type P-Pairs Signal & Instrumentation, 20 AWG-10 Strands, Individual/Overall Shield

| Conductor | Unarmored | | | | | Armored | | | | |
|-----------|------------|------|--------------|------------|-------|------------|------|---------------|--------|-------|
| | Nominal OD | | Part Number | Net Weight | | Nominal OD | | Bronze | | |
| | in | mm | | lb/kft | kg/km | in | mm | Part Number | lb/kft | kg/km |
| 1 | 0.31 | 8.0 | DTPS20PCP-1 | 45 | 68 | 0.37 | 9.3 | DTPS20PCPB-1 | 98 | 146 |
| 2 | 0.54 | 13.7 | DTPS20PCP-2 | 94 | 140 | 0.59 | 15.0 | DTPS20PCPB-2 | 182 | 271 |
| 3 | 0.60 | 15.3 | DTPS20PCP-3 | 136 | 202 | 0.66 | 16.7 | DTPS20PCPB-3 | 234 | 348 |
| 4 | 0.66 | 16.7 | DTPS20PCP-4 | 164 | 243 | 0.71 | 18.1 | DTPS20PCPB-4 | 270 | 402 |
| 5 | 0.72 | 18.3 | DTPS20PCP-5 | 192 | 286 | 0.77 | 19.6 | DTPS20PCPB-5 | 308 | 459 |
| 6 | 0.78 | 19.9 | DTPS20PCP-6 | 221 | 329 | 0.84 | 21.3 | DTPS20PCPB-6 | 347 | 517 |
| 7 | 0.78 | 19.9 | DTPS20PCP-7 | 241 | 359 | 0.84 | 21.3 | DTPS20PCPB-7 | 368 | 547 |
| 8 | 0.85 | 21.6 | DTPS20PCP-8 | 270 | 402 | 0.90 | 22.9 | DTPS20PCPB-8 | 407 | 605 |
| 10 | 1.04 | 26.5 | DTPS20PCP-10 | 375 | 558 | 1.09 | 27.8 | DTPS20PCPB-10 | 541 | 806 |
| 12 | 1.08 | 27.3 | DTPS20PCP-12 | 421 | 627 | 1.13 | 28.7 | DTPS20PCPB-12 | 593 | 882 |
| 14 | 1.13 | 28.7 | DTPS20PCP-14 | 471 | 701 | 1.18 | 30.0 | DTPS20PCPB-14 | 652 | 970 |
| 16 | 1.19 | 30.3 | DTPS20PCP-16 | 523 | 778 | 1.24 | 31.6 | DTPS20PCPB-16 | 713 | 1061 |
| 17 | 1.26 | 31.9 | DTPS20PCP-17 | 554 | 825 | 1.31 | 33.2 | DTPS20PCPB-17 | 754 | 1123 |
| 19 | 1.26 | 31.9 | DTPS20PCP-19 | 595 | 885 | 1.31 | 33.2 | DTPS20PCPB-19 | 795 | 1183 |
| 20 | 1.32 | 33.5 | DTPS20PCP-20 | 627 | 932 | 1.37 | 34.9 | DTPS20PCPB-20 | 837 | 1245 |
| 24 | 1.47 | 37.4 | DTPS20PCP-24 | 734 | 1092 | 1.52 | 38.7 | DTPS20PCPB-24 | 968 | 1440 |

| Conductor | Armored & Sheathed | | | | | | | |
|-----------------|--------------------|------|----------------|------------|-------|----------------|------------|-------|
| | Nominal OD | | Aluminum | | | Bronze | | |
| | in | mm | Part Number | Net Weight | | Part Number | Net Weight | |
| Number of Pairs | | | | lb/kft | kg/km | | lb/kft | kg/km |
| 1 | 0.47 | 12.0 | DTPS20PCPAS-1 | 107 | 159 | DTPS20PCPBS-1 | 143 | 213 |
| 2 | 0.73 | 18.5 | DTPS20PCPAS-2 | 212 | 316 | DTPS20PCPBS-2 | 273 | 406 |
| 3 | 0.79 | 20.1 | DTPS20PCPAS-3 | 266 | 395 | DTPS20PCPBS-3 | 334 | 497 |
| 4 | 0.85 | 21.5 | DTPS20PCPAS-4 | 304 | 452 | DTPS20PCPBS-4 | 378 | 562 |
| 5 | 0.95 | 24.2 | DTPS20PCPAS-5 | 383 | 570 | DTPS20PCPBS-5 | 464 | 690 |
| 6 | 1.02 | 25.8 | DTPS20PCPAS-6 | 427 | 636 | DTPS20PCPBS-6 | 515 | 766 |
| 7 | 1.02 | 25.8 | DTPS20PCPAS-7 | 447 | 666 | DTPS20PCPBS-7 | 535 | 796 |
| 8 | 1.08 | 27.4 | DTPS20PCPAS-8 | 491 | 731 | DTPS20PCPBS-8 | 586 | 871 |
| 10 | 1.27 | 32.4 | DTPS20PCPAS-10 | 640 | 952 | DTPS20PCPBS-10 | 755 | 1124 |
| 12 | 1.31 | 33.2 | DTPS20PCPAS-12 | 694 | 1032 | DTPS20PCPBS-12 | 813 | 1209 |
| 14 | 1.36 | 34.6 | DTPS20PCPAS-14 | 756 | 1126 | DTPS20PCPBS-14 | 882 | 1312 |
| 16 | 1.42 | 36.2 | DTPS20PCPAS-16 | 822 | 1223 | DTPS20PCPBS-16 | 954 | 1419 |
| 17 | 1.49 | 37.8 | DTPS20PCPAS-17 | 868 | 1292 | DTPS20PCPBS-17 | 1007 | 1499 |
| 19 | 1.49 | 37.8 | DTPS20PCPAS-19 | 909 | 1352 | DTPS20PCPBS-19 | 1047 | 1559 |
| 20 | 1.55 | 39.4 | DTPS20PCPAS-20 | 955 | 1422 | DTPS20PCPBS-20 | 1101 | 1638 |
| 24 | 1.70 | 43.2 | DTPS20PCPAS-24 | 1097 | 1633 | DTPS20PCPBS-24 | 1259 | 1873 |

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Type P-Pairs Signal & Instrumentation, 18 AWG-16 Strands, Individual/Overall Shield

| Conductor | Unarmored | | | | | Armored | | | | |
|-----------|------------|------|--------------|------------|-------|------------|------|---------------|--------|-------|
| | Nominal OD | | Part Number | Net Weight | | Nominal OD | | Bronze | | |
| | in | mm | | lb/kft | kg/km | in | mm | Part Number | lb/kft | kg/km |
| 1 | 0.33 | 8.5 | DTPS18PCP-1 | 54 | 80 | 0.39 | 9.8 | DTPS18PCPB-1 | 110 | 164 |
| 2 | 0.61 | 15.5 | DTPS18PCP-2 | 131 | 195 | 0.66 | 16.9 | DTPS18PCPB-2 | 231 | 343 |
| 3 | 0.65 | 16.5 | DTPS18PCP-3 | 163 | 243 | 0.70 | 17.8 | DTPS18PCPB-3 | 268 | 399 |
| 4 | 0.71 | 18.0 | DTPS18PCP-4 | 198 | 295 | 0.76 | 19.4 | DTPS18PCPB-4 | 313 | 466 |
| 5 | 0.78 | 19.7 | DTPS18PCP-5 | 234 | 349 | 0.83 | 21.0 | DTPS18PCPB-5 | 359 | 535 |
| 6 | 0.85 | 21.5 | DTPS18PCP-6 | 271 | 403 | 0.90 | 22.8 | DTPS18PCPB-6 | 407 | 606 |
| 7 | 0.85 | 21.5 | DTPS18PCP-7 | 298 | 443 | 0.90 | 22.8 | DTPS18PCPB-7 | 434 | 646 |
| 8 | 0.96 | 24.4 | DTPS18PCP-8 | 375 | 557 | 1.01 | 25.7 | DTPS18PCPB-8 | 529 | 787 |
| 10 | 1.13 | 28.6 | DTPS18PCP-10 | 458 | 681 | 1.18 | 29.9 | DTPS18PCPB-10 | 637 | 949 |
| 12 | 1.16 | 29.5 | DTPS18PCP-12 | 518 | 771 | 1.21 | 30.8 | DTPS18PCPB-12 | 703 | 1047 |
| 14 | 1.22 | 31.1 | DTPS18PCP-14 | 583 | 868 | 1.28 | 32.4 | DTPS18PCPB-14 | 778 | 1158 |
| 16 | 1.29 | 32.8 | DTPS18PCP-16 | 649 | 965 | 1.34 | 34.1 | DTPS18PCPB-16 | 854 | 1271 |
| 17 | 1.36 | 34.6 | DTPS18PCP-17 | 688 | 1024 | 1.41 | 35.9 | DTPS18PCPB-17 | 905 | 1346 |
| 19 | 1.36 | 34.6 | DTPS18PCP-19 | 742 | 1104 | 1.41 | 35.9 | DTPS18PCPB-19 | 958 | 1426 |
| 20 | 1.43 | 36.3 | DTPS18PCP-20 | 782 | 1163 | 1.48 | 37.7 | DTPS18PCPB-20 | 1009 | 1501 |
| 24 | 1.60 | 40.5 | DTPS18PCP-24 | 919 | 1367 | 1.65 | 41.9 | DTPS18PCPB-24 | 1172 | 1744 |

| Conductor | Armored & Sheathed | | | | | | | |
|-----------|--------------------|------|----------------|--------|-------|----------------|--------|-------|
| | Nominal OD | | Aluminum | | | Bronze | | |
| | in | mm | Part Number | lb/kft | kg/km | Part Number | lb/kft | kg/km |
| 1 | 0.49 | 12.5 | DTPS18PCPAS-1 | 118 | 176 | DTPS18PCPBS-1 | 157 | 234 |
| 2 | 0.80 | 20.3 | DTPS18PCPAS-2 | 263 | 391 | DTPS18PCPBS-2 | 332 | 493 |
| 3 | 0.84 | 21.2 | DTPS18PCPAS-3 | 301 | 448 | DTPS18PCPBS-3 | 374 | 557 |
| 4 | 0.94 | 23.9 | DTPS18PCPAS-4 | 387 | 576 | DTPS18PCPBS-4 | 467 | 695 |
| 5 | 1.01 | 25.6 | DTPS18PCPAS-5 | 438 | 653 | DTPS18PCPBS-5 | 525 | 782 |
| 6 | 1.08 | 27.4 | DTPS18PCPAS-6 | 491 | 731 | DTPS18PCPBS-6 | 586 | 871 |
| 7 | 1.08 | 27.4 | DTPS18PCPAS-7 | 518 | 771 | DTPS18PCPBS-7 | 612 | 911 |
| 8 | 1.19 | 30.3 | DTPS18PCPAS-8 | 621 | 924 | DTPS18PCPBS-8 | 728 | 1083 |
| 10 | 1.36 | 34.5 | DTPS18PCPAS-10 | 742 | 1104 | DTPS18PCPBS-10 | 866 | 1289 |
| 12 | 1.39 | 35.4 | DTPS18PCPAS-12 | 811 | 1206 | DTPS18PCPBS-12 | 939 | 1397 |
| 14 | 1.45 | 37.0 | DTPS18PCPAS-14 | 889 | 1324 | DTPS18PCPBS-14 | 1024 | 1524 |
| 16 | 1.52 | 38.6 | DTPS18PCPAS-16 | 970 | 1444 | DTPS18PCPBS-16 | 1113 | 1656 |
| 17 | 1.59 | 40.4 | DTPS18PCPAS-17 | 1026 | 1527 | DTPS18PCPBS-17 | 1176 | 1750 |
| 19 | 1.59 | 40.4 | DTPS18PCPAS-19 | 1080 | 1607 | DTPS18PCPBS-19 | 1230 | 1830 |
| 20 | 1.66 | 42.2 | DTPS18PCPAS-20 | 1136 | 1690 | DTPS18PCPBS-20 | 1293 | 1924 |
| 24 | 1.89 | 48.1 | DTPS18PCPAS-24 | 1428 | 2124 | DTPS18PCPBS-24 | 1603 | 2385 |

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampanities: Refer to beginning of section.

Technical Data *continued*

Type P-Pairs Signal & Instrumentation, 16 AWG-26 Strands, Individual/Overall Shield

| Conductor | Unarmored | | | | | Armored | | | | |
|-----------|------------|------|--------------|------------|-------|------------|------|---------------|--------|-------|
| | Nominal OD | | Part Number | Net Weight | | Nominal OD | | Bronze | | |
| | in | mm | | lb/kft | kg/km | in | mm | Part Number | lb/kft | kg/km |
| 1 | 0.36 | 9.2 | DTPS16PCP-1 | 67 | 100 | 0.41 | 10.5 | DTPS16PCPB-1 | 128 | 190 |
| 2 | 0.67 | 16.9 | DTPS16PCP-2 | 162 | 241 | 0.72 | 18.2 | DTPS16PCPB-2 | 270 | 402 |
| 3 | 0.71 | 17.9 | DTPS16PCP-3 | 205 | 306 | 0.76 | 19.3 | DTPS16PCPB-3 | 320 | 476 |
| 4 | 0.77 | 19.7 | DTPS16PCP-4 | 252 | 376 | 0.83 | 21.0 | DTPS16PCPB-4 | 377 | 561 |
| 5 | 0.85 | 21.6 | DTPS16PCP-5 | 300 | 447 | 0.90 | 22.9 | DTPS16PCPB-5 | 437 | 650 |
| 6 | 0.97 | 24.7 | DTPS16PCP-6 | 389 | 580 | 1.02 | 26.0 | DTPS16PCPB-6 | 545 | 811 |
| 7 | 0.97 | 24.7 | DTPS16PCP-7 | 427 | 636 | 1.02 | 26.0 | DTPS16PCPB-7 | 583 | 867 |
| 8 | 1.05 | 26.7 | DTPS16PCP-8 | 479 | 713 | 1.10 | 28.0 | DTPS16PCPB-8 | 647 | 963 |
| 10 | 1.23 | 31.3 | DTPS16PCP-10 | 587 | 874 | 1.29 | 32.7 | DTPS16PCPB-10 | 784 | 1166 |
| 12 | 1.27 | 32.4 | DTPS16PCP-12 | 670 | 997 | 1.33 | 33.7 | DTPS16PCPB-12 | 873 | 1299 |
| 14 | 1.34 | 34.1 | DTPS16PCP-14 | 758 | 1127 | 1.39 | 35.4 | DTPS16PCPB-14 | 971 | 1445 |
| 16 | 1.42 | 36.0 | DTPS16PCP-16 | 846 | 1260 | 1.47 | 37.3 | DTPS16PCPB-16 | 1071 | 1594 |
| 17 | 1.50 | 38.0 | DTPS16PCP-17 | 898 | 1337 | 1.55 | 39.3 | DTPS16PCPB-17 | 1136 | 1690 |
| 19 | 1.50 | 38.0 | DTPS16PCP-19 | 974 | 1449 | 1.55 | 39.3 | DTPS16PCPB-19 | 1211 | 1802 |
| 20 | 1.57 | 40.0 | DTPS16PCP-20 | 1026 | 1526 | 1.63 | 41.3 | DTPS16PCPB-20 | 1275 | 1898 |
| 24 | 1.82 | 46.3 | DTPS16PCP-24 | 1322 | 1968 | 1.87 | 47.6 | DTPS16PCPB-24 | 1610 | 2397 |

| Conductor | Armored & Sheathed | | | | | | | |
|-----------------|--------------------|------|----------------|------------|-------|----------------|------------|-------|
| | Nominal OD | | Aluminum | | | Bronze | | |
| | in | mm | Part Number | Net Weight | | Part Number | Net Weight | |
| Number of Pairs | | | | lb/kft | kg/km | | lb/kft | kg/km |
| 1 | 0.52 | 13.2 | DTPS16PCPAS-1 | 136 | 202 | DTPS16PCPBS-1 | 178 | 264 |
| 2 | 0.85 | 21.7 | DTPS16PCPAS-2 | 304 | 452 | DTPS16PCPBS-2 | 378 | 563 |
| 3 | 0.94 | 23.8 | DTPS16PCPAS-3 | 394 | 586 | DTPS16PCPBS-3 | 473 | 703 |
| 4 | 1.01 | 25.5 | DTPS16PCPAS-4 | 456 | 679 | DTPS16PCPBS-4 | 542 | 807 |
| 5 | 1.08 | 27.4 | DTPS16PCPAS-5 | 521 | 775 | DTPS16PCPBS-5 | 616 | 916 |
| 6 | 1.20 | 30.6 | DTPS16PCPAS-6 | 638 | 950 | DTPS16PCPBS-6 | 746 | 1110 |
| 7 | 1.20 | 30.6 | DTPS16PCPAS-7 | 676 | 1006 | DTPS16PCPBS-7 | 784 | 1166 |
| 8 | 1.28 | 32.6 | DTPS16PCPAS-8 | 746 | 1110 | DTPS16PCPBS-8 | 862 | 1283 |
| 10 | 1.47 | 37.2 | DTPS16PCPAS-10 | 896 | 1334 | DTPS16PCPBS-10 | 1032 | 1536 |
| 12 | 1.51 | 38.3 | DTPS16PCPAS-12 | 988 | 1470 | DTPS16PCPBS-12 | 1129 | 1680 |
| 14 | 1.57 | 40.0 | DTPS16PCPAS-14 | 1091 | 1624 | DTPS16PCPBS-14 | 1239 | 1844 |
| 16 | 1.65 | 41.9 | DTPS16PCPAS-16 | 1197 | 1781 | DTPS16PCPBS-16 | 1353 | 2014 |
| 17 | 1.73 | 43.9 | DTPS16PCPAS-17 | 1267 | 1886 | DTPS16PCPBS-17 | 1432 | 2130 |
| 19 | 1.73 | 43.9 | DTPS16PCPAS-19 | 1342 | 1998 | DTPS16PCPBS-19 | 1507 | 2243 |
| 20 | 1.87 | 47.5 | DTPS16PCPAS-20 | 1528 | 2274 | DTPS16PCPBS-20 | 1701 | 2532 |
| 24 | 2.12 | 53.8 | DTPS16PCPAS-24 | 1897 | 2823 | DTPS16PCPBS-24 | 2097 | 3121 |

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Type P-Pairs Signal & Instrumentation, 14 AWG-41 Strands, Individual/Overall Shield

| Conductor | Unarmored | | | | | Armored | | | | |
|-----------|------------|------|--------------|------------|-------|------------|------|---------------|--------|-------|
| | Nominal OD | | Part Number | Net Weight | | Nominal OD | | Bronze | | |
| | in | mm | | lb/kft | kg/km | in | mm | Part Number | lb/kft | kg/km |
| 1 | 0.39 | 10.0 | DTPS14PCP-1 | 85 | 127 | 0.45 | 11.3 | DTPS14PCPB-1 | 151 | 224 |
| 2 | 0.73 | 18.5 | DTPS14PCP-2 | 205 | 305 | 0.78 | 19.8 | DTPS14PCPB-2 | 323 | 480 |
| 3 | 0.77 | 19.7 | DTPS14PCP-3 | 265 | 394 | 0.83 | 21.0 | DTPS14PCPB-3 | 389 | 580 |
| 4 | 0.85 | 21.6 | DTPS14PCP-4 | 329 | 489 | 0.90 | 22.9 | DTPS14PCPB-4 | 465 | 692 |
| 5 | 0.98 | 24.8 | DTPS14PCP-5 | 434 | 646 | 1.03 | 26.1 | DTPS14PCPB-5 | 590 | 879 |
| 6 | 1.06 | 27.1 | DTPS14PCP-6 | 503 | 749 | 1.12 | 28.4 | DTPS14PCPB-6 | 674 | 1002 |
| 7 | 1.06 | 27.1 | DTPS14PCP-7 | 557 | 829 | 1.12 | 28.4 | DTPS14PCPB-7 | 727 | 1082 |
| 8 | 1.15 | 29.3 | DTPS14PCP-8 | 626 | 932 | 1.21 | 30.6 | DTPS14PCPB-8 | 810 | 1205 |
| 10 | 1.36 | 34.5 | DTPS14PCP-10 | 770 | 1145 | 1.41 | 35.8 | DTPS14PCPB-10 | 986 | 1467 |
| 12 | 1.40 | 35.7 | DTPS14PCP-12 | 885 | 1317 | 1.46 | 37.0 | DTPS14PCPB-12 | 1108 | 1649 |
| 14 | 1.48 | 37.6 | DTPS14PCP-14 | 1005 | 1496 | 1.53 | 38.9 | DTPS14PCPB-14 | 1240 | 1845 |
| 16 | 1.56 | 39.7 | DTPS14PCP-16 | 1127 | 1677 | 1.62 | 41.0 | DTPS14PCPB-16 | 1375 | 2046 |
| 17 | 1.65 | 41.9 | DTPS14PCP-17 | 1196 | 1780 | 1.70 | 43.3 | DTPS14PCPB-17 | 1458 | 2170 |
| 19 | 1.65 | 41.9 | DTPS14PCP-19 | 1303 | 1939 | 1.70 | 43.3 | DTPS14PCPB-19 | 1565 | 2328 |
| 20 | 1.80 | 45.8 | DTPS14PCP-20 | 1484 | 2208 | 1.86 | 47.2 | DTPS14PCPB-20 | 1770 | 2633 |
| 24 | 2.01 | 51.0 | DTPS14PCP-24 | 1747 | 2600 | 2.06 | 52.4 | DTPS14PCPB-24 | 2065 | 3073 |

| Conductor | Armored & Sheathed | | | | | | | |
|-----------|--------------------|------|----------------|--------|-------|----------------|--------|-------|
| | Nominal OD | | Aluminum | | | Bronze | | |
| | in | mm | Part Number | lb/kft | kg/km | Part Number | lb/kft | kg/km |
| 1 | 0.58 | 14.8 | DTPS14PCPAS-1 | 176 | 262 | DTPS14PCPBS-1 | 221 | 330 |
| 2 | 0.96 | 24.4 | DTPS14PCPAS-2 | 398 | 593 | DTPS14PCPBS-2 | 480 | 714 |
| 3 | 1.01 | 25.5 | DTPS14PCPAS-3 | 468 | 697 | DTPS14PCPBS-3 | 555 | 826 |
| 4 | 1.08 | 27.5 | DTPS14PCPAS-4 | 550 | 818 | DTPS14PCPBS-4 | 644 | 959 |
| 5 | 1.21 | 30.7 | DTPS14PCPAS-5 | 684 | 1018 | DTPS14PCPBS-5 | 793 | 1179 |
| 6 | 1.30 | 32.9 | DTPS14PCPAS-6 | 774 | 1151 | DTPS14PCPBS-6 | 892 | 1327 |
| 7 | 1.30 | 32.9 | DTPS14PCPAS-7 | 827 | 1231 | DTPS14PCPBS-7 | 945 | 1406 |
| 8 | 1.39 | 35.2 | DTPS14PCPAS-8 | 917 | 1364 | DTPS14PCPBS-8 | 1044 | 1554 |
| 10 | 1.59 | 40.4 | DTPS14PCPAS-10 | 1107 | 1647 | DTPS14PCPBS-10 | 1257 | 1870 |
| 12 | 1.64 | 41.6 | DTPS14PCPAS-12 | 1232 | 1834 | DTPS14PCPBS-12 | 1387 | 2064 |
| 14 | 1.71 | 43.5 | DTPS14PCPAS-14 | 1370 | 2039 | DTPS14PCPBS-14 | 1533 | 2282 |
| 16 | 1.86 | 47.2 | DTPS14PCPAS-16 | 1626 | 2420 | DTPS14PCPBS-16 | 1798 | 2676 |
| 17 | 1.95 | 49.5 | DTPS14PCPAS-17 | 1721 | 2562 | DTPS14PCPBS-17 | 1903 | 2832 |
| 19 | 1.95 | 49.5 | DTPS14PCPAS-19 | 1828 | 2721 | DTPS14PCPBS-19 | 2010 | 2991 |
| 20 | 2.10 | 53.4 | DTPS14PCPAS-20 | 2054 | 3056 | DTPS14PCPBS-20 | 2252 | 3351 |
| 24 | 2.31 | 58.6 | DTPS14PCPAS-24 | 2377 | 3537 | DTPS14PCPBS-24 | 2597 | 3865 |

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Type P-Pairs Signal & Instrumentation, 12 AWG-65 Strands, Individual/Overall Shield

| Conductor Number of Pairs | Unarmored | | | | | Armored | | | | |
|------------------------------------|------------|------|--------------|------------|-------|------------|------|---------------|--------|-------|
| | Nominal OD | | Part Number | Net Weight | | Nominal OD | | Bronze | | |
| | in | mm | | lb/kft | kg/km | in | mm | Part Number | lb/kft | kg/km |
| 1 | 0.43 | 11.0 | DTPS12PCP-1 | 113 | 168 | 0.49 | 12.3 | DTPS12PCPB-1 | 184 | 274 |
| 2 | 0.81 | 20.5 | DTPS12PCP-2 | 269 | 401 | 0.86 | 21.8 | DTPS12PCPB-2 | 399 | 594 |
| 3 | 0.86 | 21.8 | DTPS12PCP-3 | 354 | 527 | 0.91 | 23.1 | DTPS12PCPB-3 | 492 | 732 |
| 4 | 0.99 | 25.1 | DTPS12PCP-4 | 485 | 722 | 1.04 | 26.4 | DTPS12PCPB-4 | 643 | 957 |
| 5 | 1.08 | 27.5 | DTPS12PCP-5 | 580 | 863 | 1.14 | 28.9 | DTPS12PCPB-5 | 753 | 1120 |
| 6 | 1.18 | 30.1 | DTPS12PCP-6 | 675 | 1005 | 1.24 | 31.4 | DTPS12PCPB-6 | 864 | 1286 |
| 7 | 1.18 | 30.1 | DTPS12PCP-7 | 753 | 1121 | 1.24 | 31.4 | DTPS12PCPB-7 | 942 | 1402 |
| 8 | 1.28 | 32.6 | DTPS12PCP-8 | 849 | 1263 | 1.34 | 33.9 | DTPS12PCPB-8 | 1053 | 1567 |
| 10 | 1.52 | 38.5 | DTPS12PCP-10 | 1046 | 1557 | 1.57 | 39.9 | DTPS12PCPB-10 | 1287 | 1915 |
| 12 | 1.57 | 39.8 | DTPS12PCP-12 | 1211 | 1802 | 1.62 | 41.2 | DTPS12PCPB-12 | 1460 | 2172 |
| 14 | 1.65 | 42.0 | DTPS12PCP-14 | 1382 | 2056 | 1.71 | 43.4 | DTPS12PCPB-14 | 1644 | 2447 |
| 16 | 1.81 | 46.1 | DTPS12PCP-16 | 1667 | 2480 | 1.87 | 47.4 | DTPS12PCPB-16 | 1954 | 2907 |
| 17 | 1.91 | 48.6 | DTPS12PCP-17 | 1769 | 2632 | 1.97 | 49.9 | DTPS12PCPB-17 | 2071 | 3082 |
| 19 | 1.91 | 48.6 | DTPS12PCP-19 | 1924 | 2863 | 1.97 | 49.9 | DTPS12PCPB-19 | 2227 | 3313 |
| 20 | 2.01 | 51.1 | DTPS12PCP-20 | 2026 | 3015 | 2.07 | 52.5 | DTPS12PCPB-20 | 2344 | 3488 |
| 24 | 2.25 | 57.1 | DTPS12PCP-24 | 2393 | 3562 | 2.30 | 58.4 | DTPS12PCPB-24 | 2748 | 4089 |

| Conductor Number of Pairs | Armored & Sheathed | | | | | | | |
|------------------------------------|--------------------|------|----------------|------------|-------|----------------|------------|-------|
| | Nominal OD | | Aluminum | | | Bronze | | |
| | in | mm | Part Number | Net Weight | | Part Number | Net Weight | |
| | | | | lb/kft | kg/km | | lb/kft | kg/km |
| 1 | 0.62 | 15.8 | DTPS12PCPAS-1 | 211 | 314 | DTPS12PCPBS-1 | 261 | 388 |
| 2 | 1.04 | 26.4 | DTPS12PCPAS-2 | 481 | 715 | DTPS12PCPBS-2 | 571 | 849 |
| 3 | 1.09 | 27.7 | DTPS12PCPAS-3 | 577 | 859 | DTPS12PCPBS-3 | 673 | 1001 |
| 4 | 1.22 | 31.0 | DTPS12PCPAS-4 | 738 | 1098 | DTPS12PCPBS-4 | 848 | 1261 |
| 5 | 1.32 | 33.4 | DTPS12PCPAS-5 | 854 | 1271 | DTPS12PCPBS-5 | 974 | 1450 |
| 6 | 1.42 | 36.0 | DTPS12PCPAS-6 | 973 | 1448 | DTPS12PCPBS-6 | 1104 | 1642 |
| 7 | 1.42 | 36.0 | DTPS12PCPAS-7 | 1050 | 1563 | DTPS12PCPBS-7 | 1181 | 1758 |
| 8 | 1.52 | 38.5 | DTPS12PCPAS-8 | 1169 | 1740 | DTPS12PCPBS-8 | 1311 | 1950 |
| 10 | 1.81 | 46.0 | DTPS12PCPAS-10 | 1532 | 2280 | DTPS12PCPBS-10 | 1699 | 2528 |
| 12 | 1.86 | 47.4 | DTPS12PCPAS-12 | 1712 | 2547 | DTPS12PCPBS-12 | 1884 | 2804 |
| 14 | 1.95 | 49.6 | DTPS12PCPAS-14 | 1908 | 2839 | DTPS12PCPBS-14 | 2090 | 3110 |
| 16 | 2.11 | 53.6 | DTPS12PCPAS-16 | 2239 | 3332 | DTPS12PCPBS-16 | 2438 | 3628 |
| 17 | 2.21 | 56.1 | DTPS12PCPAS-17 | 2370 | 3527 | DTPS12PCPBS-17 | 2580 | 3839 |
| 19 | 2.21 | 56.1 | DTPS12PCPAS-19 | 2526 | 3759 | DTPS12PCPBS-19 | 2735 | 4071 |
| 20 | 2.31 | 58.7 | DTPS12PCPAS-20 | 2657 | 3954 | DTPS12PCPBS-20 | 2877 | 4282 |
| 24 | 2.54 | 64.6 | DTPS12PCPAS-24 | 3092 | 4602 | DTPS12PCPBS-24 | 3338 | 4967 |

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.

Technical Data *continued*

Type P-Pairs Signal & Instrumentation, 10 AWG-105 Strands, Individual/Overall Shield

| Conductor | Unarmored | | | | | Armored | | | | |
|-----------|------------|------|--------------|------------|-------|------------|------|---------------|--------|-------|
| | Nominal OD | | Part Number | Net Weight | | Nominal OD | | Bronze | | |
| | in | mm | | lb/kft | kg/km | in | mm | Part Number | lb/kft | kg/km |
| 1 | 0.50 | 12.6 | DTPS10PCP-1 | 157 | 234 | 0.55 | 13.9 | DTPS10PCPB-1 | 239 | 355 |
| 2 | 0.98 | 24.8 | DTPS10PCP-2 | 414 | 615 | 1.03 | 26.1 | DTPS10PCPB-2 | 570 | 848 |
| 3 | 1.04 | 26.3 | DTPS10PCP-3 | 542 | 806 | 1.09 | 27.7 | DTPS10PCPB-3 | 708 | 1053 |
| 4 | 1.14 | 28.9 | DTPS10PCP-4 | 677 | 1008 | 1.19 | 30.3 | DTPS10PCPB-4 | 859 | 1278 |
| 5 | 1.25 | 31.8 | DTPS10PCP-5 | 815 | 1213 | 1.31 | 33.1 | DTPS10PCPB-5 | 1014 | 1509 |
| 6 | 1.37 | 34.8 | DTPS10PCP-6 | 953 | 1419 | 1.42 | 36.1 | DTPS10PCPB-6 | 1171 | 1743 |
| 7 | 1.37 | 34.8 | DTPS10PCP-7 | 1070 | 1593 | 1.42 | 36.1 | DTPS10PCPB-7 | 1288 | 1917 |
| 8 | 1.49 | 37.8 | DTPS10PCP-8 | 1209 | 1799 | 1.54 | 39.2 | DTPS10PCPB-8 | 1445 | 2151 |
| 10 | 1.83 | 46.5 | DTPS10PCP-10 | 1606 | 2391 | 1.88 | 47.8 | DTPS10PCPB-10 | 1896 | 2822 |
| 12 | 1.89 | 48.1 | DTPS10PCP-12 | 1856 | 2762 | 1.94 | 49.4 | DTPS10PCPB-12 | 2155 | 3207 |
| 14 | 1.99 | 50.6 | DTPS10PCP-14 | 2115 | 3147 | 2.05 | 52.0 | DTPS10PCPB-14 | 2430 | 3616 |
| 16 | 2.11 | 53.5 | DTPS10PCP-16 | 2377 | 3537 | 2.16 | 54.8 | DTPS10PCPB-16 | 2709 | 4032 |
| 17 | 2.23 | 56.5 | DTPS10PCP-17 | 2523 | 3754 | 2.28 | 57.9 | DTPS10PCPB-17 | 2874 | 4277 |
| 19 | 2.23 | 56.5 | DTPS10PCP-19 | 2757 | 4103 | 2.28 | 57.9 | DTPS10PCPB-19 | 3108 | 4626 |
| 20 | 2.34 | 59.5 | DTPS10PCP-20 | 2903 | 4320 | 2.40 | 60.9 | DTPS10PCPB-20 | 3273 | 4870 |
| 24 | 2.62 | 66.6 | DTPS10PCP-24 | 3439 | 5118 | 2.67 | 67.9 | DTPS10PCPB-24 | 3852 | 5732 |

| Conductor | Armored & Sheathed | | | | | | | |
|-----------------|--------------------|------|----------------|------------|------------|----------------|------------|------------|
| | Nominal OD | | Part Number | Aluminum | | Part Number | Bronze | |
| | in | mm | | Net Weight | Net Weight | | Net Weight | Net Weight |
| Number of Pairs | in | mm | lb/kft | kg/km | lb/kft | kg/km | lb/kft | kg/km |
| 1 | 0.68 | 17.4 | DTPS10PCPAS-1 | 267 | 397 | DTPS10PCPBS-1 | 323 | 481 |
| 2 | 1.21 | 30.7 | DTPS10PCPAS-2 | 663 | 987 | DTPS10PCPBS-2 | 772 | 1148 |
| 3 | 1.27 | 32.2 | DTPS10PCPAS-3 | 806 | 1199 | DTPS10PCPBS-3 | 920 | 1370 |
| 4 | 1.37 | 34.8 | DTPS10PCPAS-4 | 964 | 1435 | DTPS10PCPBS-4 | 1090 | 1623 |
| 5 | 1.48 | 37.7 | DTPS10PCPAS-5 | 1128 | 1678 | DTPS10PCPBS-5 | 1266 | 1884 |
| 6 | 1.60 | 40.7 | DTPS10PCPAS-6 | 1293 | 1925 | DTPS10PCPBS-6 | 1444 | 2150 |
| 7 | 1.60 | 40.7 | DTPS10PCPAS-7 | 1411 | 2099 | DTPS10PCPBS-7 | 1562 | 2324 |
| 8 | 1.72 | 43.7 | DTPS10PCPAS-8 | 1576 | 2346 | DTPS10PCPBS-8 | 1740 | 2590 |
| 10 | 2.13 | 54.0 | DTPS10PCPAS-10 | 2184 | 3250 | DTPS10PCPBS-10 | 2385 | 3549 |
| 12 | 2.19 | 55.6 | DTPS10PCPAS-12 | 2451 | 3647 | DTPS10PCPBS-12 | 2658 | 3956 |
| 14 | 2.29 | 58.2 | DTPS10PCPAS-14 | 2740 | 4077 | DTPS10PCPBS-14 | 2958 | 4402 |
| 16 | 2.40 | 61.0 | DTPS10PCPAS-16 | 3035 | 4516 | DTPS10PCPBS-16 | 3265 | 4859 |
| 17 | 2.52 | 64.1 | DTPS10PCPAS-17 | 3215 | 4785 | DTPS10PCPBS-17 | 3459 | 5147 |
| 19 | 2.52 | 64.1 | DTPS10PCPAS-19 | 3450 | 5134 | DTPS10PCPBS-19 | 3693 | 5496 |
| 20 | 2.64 | 67.1 | DTPS10PCPAS-20 | 3630 | 5402 | DTPS10PCPBS-20 | 3887 | 5784 |
| 24 | 2.98 | 75.8 | DTPS10PCPAS-24 | 4439 | 6606 | DTPS10PCPBS-24 | 4725 | 7032 |

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Amptacities: Refer to beginning of section.

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