# MMT Marine Type "P"

## 300V/1KV IS/OS Irradiation Cross-Linked Twisted Pair Signal Cables

125°C | -55°C | FT-4 | .3-1KV | 60°C | BLACK ONLY | 3 | 4 | 3

## Product Construction:

**Conductor:**

- Flexible tinned copper stranding
  [Metric Equivalents available]

**Insulation:**

- EXAR® MMT Marine irradiated Cross-linked XLPO

**Shielded Pairs:**

- Individual & Overall Shields, Aluminum Polyester tape & CU. D/W

**Cable:**

- Planetary Cable construction with tape binder

**Outer Sheath:**

- EXAR® MMT Marine Irradiation Cross-Linked Flexible Jacket
  — Optional Bronze Armor & Outer Sheath (BS) —

**Applications:**

- Offshore oil and gas drilling platforms, support ships and FPSOs [MODU's]
- Land-based oil and gas drilling rigs
- Suitable for use in Class 1 Division 3 and Zone 2 environments

## Compliances:

| | |
|---|---|
| IEEE 45/1580 Type P | UL 1309 |
| CSA C22.2 No. 245 | IEC 60092-3 |
| ISO 9001 SQS | ABS Type Approval |
| USCG Compliant | DNV-GL (Pending) |

CHAMPLAIN CABLE

# MMT Marine Type "P"

## 18AWG 300V/1KV IS/OS Irradiation Cross-Linked TP Signal Cables

125°C | -55°C | FT-4 | .3-1KV | 60°C | BLACK ONLY | 3 | 4 | 3

| Product Number | No. Pairs | Size AWG (19/.0100) TC | Size $mm^2$ | Nominal "IS" Pairs Diameter | | Nominal "OS" Pairs Diameter | | Nominal Cable Diameter | | Net Weight lbs./MFT | Net Weight kg/km | OPTIONAL Bronze Armor (B) Nom. Dia. | | OPTIONAL Outer Sheath (S) Nom. Dia. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | in. | mm | in. | mm | in. | mm | | | in. | mm | in. | mm |
| 18 /1P ISOS (BS) | 1 | 18 | 0.96 | 0.243 | 6.17 | 0.292 | 7.4 | 0.392 | 10.0 | 63 | 94 | 0.442 | 11.2 | 0.607 | 15.4 |
| 18 /2P ISOS (BS) | 2 | 18 | 0.96 | 0.243 | 6.17 | 0.395 | 10.0 | 0.551 | 14.0 | 131 | 195 | 0.601 | 15.3 | 0.766 | 19.5 |
| 18 /3P ISOS (BS) | 3 | 18 | 0.96 | 0.243 | 6.17 | 0.451 | 11.5 | 0.581 | 14.8 | 163 | 243 | 0.631 | 16.0 | 0.796 | 20.2 |
| 18 /4P ISOS (BS) | 4 | 18 | 0.96 | 0.243 | 6.17 | 0.500 | 12.7 | 0.630 | 16.0 | 195 | 291 | 0.680 | 17.3 | 0.845 | 21.5 |
| 18 /5P ISOS (BS) | 5 | 18 | 0.96 | 0.243 | 6.17 | 0.555 | 14.1 | 0.685 | 17.4 | 243 | 362 | 0.735 | 18.7 | 0.900 | 22.9 |
| 18 /7P ISOS (BS) | 7 | 18 | 0.96 | 0.243 | 6.17 | 0.612 | 15.5 | 0.742 | 18.8 | 340 | 507 | 0.792 | 20.1 | 0.957 | 24.3 |
| 18 /8P ISOS (BS) | 8 | 18 | 0.96 | 0.243 | 6.17 | 0.670 | 17.0 | 0.800 | 20.3 | 388 | 578 | 0.850 | 21.6 | 1.015 | 25.8 |
| 18 /10P ISOS (BS) | 10 | 18 | 0.96 | 0.243 | 6.17 | 0.753 | 19.1 | 0.933 | 23.7 | 495 | 738 | 0.983 | 25.0 | 1.148 | 29.2 |
| 18 /12P ISOS (BS) | 12 | 18 | 0.96 | 0.243 | 6.17 | 0.782 | 19.9 | 0.962 | 24.4 | 581 | 866 | 1.012 | 25.7 | 1.177 | 29.9 |
| 18 /16P ISOS (BS) | 16 | 18 | 0.96 | 0.243 | 6.17 | 0.886 | 22.5 | 1.066 | 27.1 | 748 | 1115 | 1.116 | 28.3 | 1.281 | 32.5 |
| 18 /18P ISOS (BS) | 18 | 18 | 0.96 | 0.243 | 6.17 | 0.943 | 24.0 | 1.123 | 28.5 | 824 | 1229 | 1.173 | 29.8 | 1.338 | 34.0 |
| 18 /24P ISOS (BS) | 24 | 18 | 0.96 | 0.243 | 6.17 | 1.134 | 28.8 | 1.314 | 33.4 | 1069 | 1594 | 1.364 | 34.6 | 1.529 | 38.8 |


**Manufacturing Locations:**
Colchester, Vermont
El Paso, Texas
www.champcable.com

# MMT Marine Type “P”

## 16AWG 300V/1KV IS/OS Irradiation Cross-Linked TP Signal Cables

125°C | -55°C | FT-4 | .3-1KV | 60°C | BLACK ONLY | 3 | 4 | 3

| Product Number | No. Pairs | Size AWG (19/.0117) TC | Size $mm^2$ | Nominal "IS" Pairs Diameter | | Nominal "OS" Pairs Diameter | | Nominal Cable Diameter | | Net Weight lbs./MFT | Net Weight kg/km | OPTIONAL Bronze Armor (B) Nom. Dia. | | OPTIONAL Outer Sheath (S) Nom. Dia. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | in. | mm | in. | mm | in. | mm | | | in. | mm | in. | mm |
| 16 /1P ISOS (BS) | 1 | 16 | 1.32 | 0.262 | 6.65 | 0.312 | 7.9 | 0.412 | 10.5 | 77 | 115 | 0.462 | 11.7 | 0.627 | 15.9 |
| 16 /2P ISOS (BS) | 2 | 16 | 1.32 | 0.262 | 6.65 | 0.455 | 11.6 | 0.585 | 14.9 | 160 | 239 | 0.635 | 16.1 | 0.800 | 20.3 |
| 16 /3P ISOS (BS) | 3 | 16 | 1.32 | 0.262 | 6.65 | 0.487 | 12.4 | 0.617 | 15.7 | 200 | 298 | 0.667 | 16.9 | 0.832 | 21.1 |
| 16 /4P ISOS (BS) | 4 | 16 | 1.32 | 0.262 | 6.65 | 0.541 | 13.7 | 0.671 | 17.0 | 239 | 356 | 0.721 | 18.3 | 0.886 | 22.5 |
| 16 /5P ISOS (BS) | 5 | 16 | 1.32 | 0.262 | 6.65 | 0.600 | 15.2 | 0.730 | 18.5 | 297 | 443 | 0.780 | 19.8 | 0.945 | 24.0 |
| 16 /7P ISOS (BS) | 7 | 16 | 1.32 | 0.262 | 6.65 | 0.612 | 15.5 | 0.792 | 20.1 | 416 | 620 | 0.842 | 21.4 | 1.007 | 25.6 |
| 16 /8P ISOS (BS) | 8 | 16 | 1.32 | 0.262 | 6.65 | 0.676 | 17.2 | 0.856 | 21.7 | 475 | 708 | 0.906 | 23.0 | 1.071 | 27.2 |
| 16 /10P ISOS (BS) | 10 | 16 | 1.32 | 0.262 | 6.65 | 0.820 | 20.8 | 1.000 | 25.4 | 606 | 903 | 1.050 | 26.7 | 1.215 | 30.9 |
| 16 /12P ISOS (BS) | 12 | 16 | 1.32 | 0.262 | 6.65 | 0.852 | 21.6 | 1.032 | 26.2 | 711 | 1060 | 1.082 | 27.5 | 1.247 | 31.7 |
| 16 /16P ISOS (BS) | 16 | 16 | 1.32 | 0.262 | 6.65 | 0.965 | 24.5 | 1.145 | 29.1 | 948 | 1413 | 1.195 | 30.4 | 1.360 | 34.5 |
| 16 /18P ISOS (BS) | 18 | 16 | 1.32 | 0.262 | 6.65 | 1.027 | 26.1 | 1.207 | 30.7 | 1100 | 1640 | 1.257 | 31.9 | 1.422 | 36.1 |
| 16 /24P ISOS (BS) | 24 | 16 | 1.32 | 0.262 | 6.65 | 1.235 | 31.4 | 1.415 | 35.9 | 1510 | 2251 | 1.465 | 37.2 | 1.630 | 41.4 |

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