

# 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, ICEA T-30-820, and IEC 332 Category A.
- 210,000 Btu Flame Test ICEA 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, CO<sub>2</sub> 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.

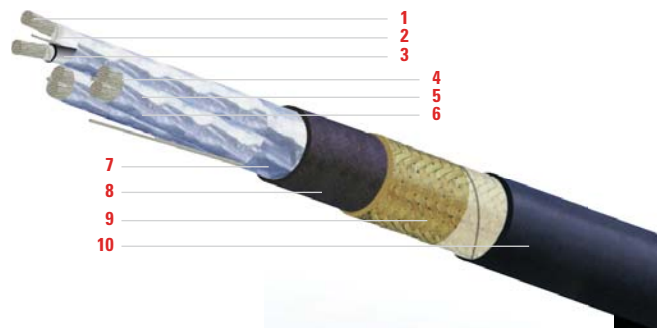
## Engineering Information

**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 Chlorinated Polyethylene (CPE) 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

Technical Data

## Type P-Pairs Signal & Instrumentation, 20 AWG-10 Strands, Individual 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	0.35	8.9	DTPI20PCPE-1	51	76	0.40	10.3	DTPI20PCPEB-1	110	164
2	0.60	15.2	DTPI20PCPE-2	113	168	0.65	16.5	DTPI20PCPEB-2	210	313
3	0.63	16.0	DTPI20PCPE-3	138	205	0.68	17.3	DTPI20PCPEB-3	240	357
4	0.69	17.4	DTPI20PCPE-4	165	246	0.74	18.7	DTPI20PCPEB-4	276	411
5	0.75	19.0	DTPI20PCPE-5	194	289	0.80	20.3	DTPI20PCPEB-5	315	468
6	0.81	20.6	DTPI20PCPE-6	223	332	0.86	21.9	DTPI20PCPEB-6	354	526
7	0.81	20.6	DTPI20PCPE-7	243	362	0.86	21.9	DTPI20PCPEB-7	374	556
8	0.92	23.4	DTPI20PCPE-8	311	462	0.97	24.7	DTPI20PCPEB-8	458	682
10	1.07	27.2	DTPI20PCPE-10	378	563	1.12	28.5	DTPI20PCPEB-10	549	817
12	1.10	28.0	DTPI20PCPE-12	425	632	1.16	29.3	DTPI20PCPEB-12	601	894
14	1.16	29.4	DTPI20PCPE-14	475	707	1.21	30.7	DTPI20PCPEB-14	659	981
16	1.22	31.0	DTPI20PCPE-16	526	783	1.27	32.3	DTPI20PCPEB-16	720	1072
17	1.28	32.6	DTPI20PCPE-17	558	831	1.34	33.9	DTPI20PCPEB-17	762	1134
19	1.28	32.6	DTPI20PCPE-19	598	891	1.34	33.9	DTPI20PCPEB-19	803	1195
20	1.35	34.2	DTPI20PCPE-20	630	938	1.40	35.6	DTPI20PCPEB-20	845	1257
24	1.50	38.0	DTPI20PCPE-24	738	1098	1.55	39.4	DTPI20PCPEB-24	976	1452

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.54	13.7	DTPI20PCPEAS-1	122	181	DTPI20PCPEBS-1	162	242
2	0.82	20.8	DTPI20PCPEAS-2	246	336	DTPI20PCPEBS-2	313	466
3	0.85	21.6	DTPI20PCPEAS-3	277	412	DTPI20PCPEBS-3	348	517
4	0.95	24.1	DTPI20PCPEAS-4	354	427	DTPI20PCPEBS-4	431	642
5	1.01	25.7	DTPI20PCPEAS-5	397	591	DTPI20PCPEBS-5	481	715
6	1.08	27.3	DTPI20PCPEAS-6	441	656	DTPI20PCPEBS-6	531	791
7	1.08	27.3	DTPI20PCPEAS-7	461	686	DTPI20PCPEBS-7	552	821
8	1.18	30.1	DTPI20PCPEAS-8	553	823	DTPI20PCPEBS-8	655	975
10	1.33	33.9	DTPI20PCPEAS-10	655	975	DTPI20PCPEBS-10	773	1151
12	1.37	34.7	DTPI20PCPEAS-12	709	1055	DTPI20PCPEBS-12	831	1236
14	1.42	36.1	DTPI20PCPEAS-14	772	1148	DTPI20PCPEBS-14	900	1339
16	1.48	37.7	DTPI20PCPEAS-16	837	1246	DTPI20PCPEBS-16	972	1446
17	1.55	39.3	DTPI20PCPEAS-17	884	1315	DTPI20PCPEBS-17	1025	1526
19	1.55	39.3	DTPI20PCPEAS-19	924	1375	DTPI20PCPEBS-19	1066	1586
20	1.61	40.9	DTPI20PCPEAS-20	971	1445	DTPI20PCPEBS-20	1119	1666
24	1.83	46.4	DTPI20PCPEAS-24	1226	1824	DTPI20PCPEBS-24	1391	2069

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 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	0.37	9.5	DTP118PCPE-1	60	89	0.43	10.8	DTP118PCPEB-1	122	182
2	0.64	16.2	DTP118PCPE-2	132	197	0.69	17.6	DTP118PCPEB-2	236	351
3	0.67	17.1	DTP118PCPE-3	164	244	0.73	18.5	DTP118PCPEB-3	273	407
4	0.74	18.7	DTP118PCPE-4	199	297	0.79	20.0	DTP118PCPEB-4	318	474
5	0.80	20.4	DTP118PCPE-5	235	350	0.86	21.7	DTP118PCPEB-5	365	543
6	0.92	23.3	DTP118PCPE-6	310	462	0.97	24.6	DTP118PCPEB-6	457	681
7	0.92	23.3	DTP118PCPE-7	337	502	0.97	24.6	DTP118PCPEB-7	484	721
8	0.99	25.1	DTP118PCPE-8	377	561	1.04	26.4	DTP118PCPEB-8	535	796
10	1.15	29.3	DTP118PCPE-10	460	685	1.21	30.6	DTP118PCPEB-10	644	959
12	1.19	30.2	DTP118PCPE-12	521	775	1.24	31.5	DTP118PCPEB-12	710	1057
14	1.25	31.8	DTP118PCPE-14	586	871	1.30	33.1	DTP118PCPEB-14	785	1168
16	1.32	33.4	DTP118PCPE-16	651	969	1.37	34.8	DTP118PCPEB-16	861	1281
17	1.39	35.2	DTP118PCPE-17	691	1028	1.44	36.6	DTP118PCPEB-17	912	1357
19	1.39	35.2	DTP118PCPE-19	745	1108	1.44	36.6	DTP118PCPEB-19	965	1437
20	1.46	37.0	DTP118PCPE-20	785	1168	1.51	38.4	DTP118PCPEB-20	1016	1512
24	1.62	41.2	DTP118PCPE-24	922	1372	1.68	42.5	DTP118PCPEB-24	1179	1754

Conductor	Armored & Sheathed							
	Nominal OD		Part Number	Aluminum		Part Number	Bronze	
	in	mm		lb/kft	kg/km		lb/kft	kg/km
1	0.59	15.1	DTP118PCPEAS-1	151	225	DTP118PCPEBS-1	194	289
2	0.86	21.8	DTP118PCPEAS-2	273	406	DTP118PCPEBS-2	345	513
3	0.94	23.9	DTP118PCPEAS-3	351	522	DTP118PCPEBS-3	426	634
4	1.00	25.4	DTP118PCPEAS-4	400	595	DTP118PCPEBS-4	482	718
5	1.07	27.1	DTP118PCPEAS-5	451	672	DTP118PCPEBS-5	541	805
6	1.18	30.0	DTP118PCPEAS-6	552	822	DTP118PCPEBS-6	654	974
7	1.18	30.0	DTP118PCPEAS-7	579	862	DTP118PCPEBS-7	681	1014
8	1.25	31.8	DTP118PCPEAS-8	635	945	DTP118PCPEBS-8	745	1108
10	1.42	36.0	DTP118PCPEAS-10	756	1125	DTP118PCPEBS-10	884	1315
12	1.45	36.9	DTP118PCPEAS-12	825	1227	DTP118PCPEBS-12	956	1423
14	1.51	38.5	DTP118PCPEAS-14	904	1345	DTP118PCPEBS-14	1042	1550
16	1.58	40.2	DTP118PCPEAS-16	985	1465	DTP118PCPEBS-16	1130	1681
17	1.65	41.9	DTP118PCPEAS-17	1041	1549	DTP118PCPEBS-17	1193	1776
19	1.65	41.9	DTP118PCPEAS-19	1094	1629	DTP118PCPEBS-19	1247	1856
20	1.72	43.7	DTP118PCPEAS-20	1150	1712	DTP118PCPEBS-20	1311	1950
24	1.95	49.6	DTP118PCPEAS-24	1446	2152	DTP118PCPEBS-24	1624	2417

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.

**Amcapities:** Refer to beginning of section.

Technical Data *continued*

## Type P-Pairs Signal & Instrumentation, 16 AWG-26 Strands, Individual 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	0.40	10.1	DTPI16PCPE-1	74	109	0.45	11.5	DTPI16PCPEB-1	140	208
2	0.69	17.6	DTPI16PCPE-2	161	240	0.75	18.9	DTPI16PCPEB-2	273	407
3	0.73	18.6	DTPI16PCPE-3	204	304	0.79	20.0	DTPI16PCPEB-3	323	481
4	0.80	20.3	DTPI16PCPE-4	252	374	0.85	21.7	DTPI16PCPEB-4	381	566
5	0.92	23.4	DTPI16PCPE-5	338	503	0.97	24.7	DTPI16PCPEB-5	485	722
6	1.00	25.4	DTPI16PCPE-6	390	580	1.05	26.7	DTPI16PCPEB-6	550	818
7	1.00	25.4	DTPI16PCPE-7	428	636	1.05	26.7	DTPI16PCPEB-7	587	874
8	1.08	27.4	DTPI16PCPE-8	480	714	1.13	28.7	DTPI16PCPEB-8	652	970
10	1.26	32.0	DTPI16PCPE-10	588	875	1.31	33.4	DTPI16PCPEB-10	789	1174
12	1.30	33.0	DTPI16PCPE-12	671	998	1.35	34.4	DTPI16PCPEB-12	878	1306
14	1.37	34.8	DTPI16PCPE-14	758	1129	1.42	36.1	DTPI16PCPEB-14	976	1452
16	1.44	36.7	DTPI16PCPE-16	847	1261	1.50	38.0	DTPI16PCPEB-16	1077	1602
17	1.52	38.7	DTPI16PCPE-17	899	1338	1.58	40.0	DTPI16PCPEB-17	1141	1698
19	1.52	38.7	DTPI16PCPE-19	975	1451	1.58	40.0	DTPI16PCPEB-19	1216	1810
20	1.60	40.7	DTPI16PCPE-20	1027	1528	1.65	42.0	DTPI16PCPEB-20	1281	1906
24	1.85	47.0	DTPI16PCPE-24	1325	1972	1.90	48.3	DTPI16PCPEB-24	1618	2407

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.62	15.7	DTPI16PCPEAS-1	170	252	DTPI16PCPEBS-1	216	321
2	0.96	24.3	DTPI16PCPEAS-2	352	523	DTPI16PCPEBS-2	429	639
3	1.00	25.3	DTPI16PCPEAS-3	404	602	DTPI16PCPEBS-3	486	724
4	1.06	27.1	DTPI16PCPEAS-4	467	695	DTPI16PCPEBS-4	556	828
5	1.18	30.1	DTPI16PCPEAS-5	580	864	DTPI16PCPEBS-5	683	1016
6	1.26	32.1	DTPI16PCPEAS-6	650	968	DTPI16PCPEBS-6	76	1133
7	1.26	32.1	DTPI16PCPEAS-7	688	1024	DTPI16PCPEBS-7	799	1189
8	1.34	34.1	DTPI16PCPEAS-8	758	1128	DTPI16PCPEBS-8	877	1306
10	1.52	38.7	DTPI16PCPEAS-10	909	1352	DTPI16PCPEBS-10	1048	1559
12	1.57	39.8	DTPI16PCPEAS-12	1001	1489	DTPI16PCPEBS-12	1144	1703
14	1.63	41.5	DTPI16PCPEAS-14	1104	1642	DTPI16PCPEBS-14	1254	1867
16	1.71	43.4	DTPI16PCPEAS-16	1210	1800	DTPI16PCPEBS-16	1369	2037
17	1.85	47.0	DTPI16PCPEAS-17	1394	2075	DTPI16PCPEBS-17	1562	2324
19	1.85	47.0	DTPI16PCPEAS-19	1470	2187	DTPI16PCPEBS-19	1637	2437
20	1.93	49.0	DTPI16PCPEAS-20	1545	2299	DTPI16PCPEBS-20	1721	2561
24	2.18	55.3	DTPI16PCPEAS-24	1916	2851	DTPI16PCPEBS-24	2118	3152

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 Shield

Conductor	Unarmored					Armored				
	Nominal OD		Part Number	Net Weight		Nominal OD		Part Number	Net Weight	
	in	mm		lb/kft	kg/km	in	mm		lb/kft	kg/km
1	0.43	10.9	DTPI14PCPE-1	92	137	0.48	12.3	DTPI14PCPEB-1	163	243
2	0.76	19.2	DTPI14PCPE-2	201	299	0.81	20.5	DTPI14PCPEB-2	323	481
3	0.80	20.3	DTPI14PCPE-3	261	388	0.85	21.7	DTPI14PCPEB-3	390	580
4	0.92	23.4	DTPI14PCPE-4	363	540	0.97	24.7	DTPI14PCPEB-4	511	760
5	1.00	25.5	DTPI14PCPE-5	432	642	1.06	26.8	DTPI14PCPEB-5	592	881
6	1.09	27.7	DTPI14PCPE-6	501	746	1.14	29.1	DTPI14PCPEB-6	675	1005
7	1.09	27.7	DTPI14PCPE-7	554	825	1.14	29.1	DTPI14PCPEB-7	729	1085
8	1.18	30.0	DTPI14PCPE-8	624	928	1.23	31.3	DTPI14PCPEB-8	812	1208
10	1.39	35.2	DTPI14PCPE-10	768	1142	1.44	36.5	DTPI14PCPEB-10	988	1470
12	1.43	36.3	DTPI14PCPE-12	883	1314	1.48	37.7	DTPI14PCPEB-12	1110	1652
14	1.51	38.3	DTPI14PCPE-14	1003	1493	1.56	39.6	DTPI14PCPEB-14	1242	1849
16	1.59	40.4	DTPI14PCPE-16	1125	1674	1.64	41.7	DTPI14PCPEB-16	1377	2049
17	1.68	42.6	DTPI14PCPE-17	1194	1778	1.73	44.0	DTPI14PCPEB-17	1460	2173
19	1.68	42.6	DTPI14PCPE-19	1301	1936	1.73	44.0	DTPI14PCPEB-19	1567	2332
20	1.83	46.5	DTPI14PCPE-20	1484	2209	1.88	47.9	DTPI14PCPEB-20	1774	2640
24	2.04	51.7	DTPI14PCPE-24	1748	2601	2.09	53.1	DTPI14PCPEB-24	2069	3079

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
			Part Number	Net Weight		Part Number	Net Weight	
Number of Pairs	in	mm		lb/kft	kg/km		lb/kft	kg/km
1	0.65	16.5	DTPI14PCPEAS-1	194	289	DTPI14PCPEBS-1	243	362
2	1.02	25.9	DTPI14PCPEAS-2	406	604	DTPI14PCPEBS-2	491	730
3	1.06	27.1	DTPI14PCPEAS-3	476	709	DTPI14PCPEBS-3	566	842
4	1.18	30.1	DTPI14PCPEAS-4	606	902	DTPI14PCPEBS-4	708	1054
5	1.27	32.2	DTPI14PCPEAS-5	693	1032	DTPI14PCPEBS-5	805	1197
6	1.36	34.4	DTPI14PCPEAS-6	783	1165	DTPI14PCPEBS-6	904	1345
7	1.36	34.4	DTPI14PCPEAS-7	836	1245	DTPI14PCPEBS-7	957	1424
8	1.44	36.7	DTPI14PCPEAS-8	926	1378	DTPI14PCPEBS-8	1056	1572
10	1.65	41.9	DTPI14PCPEAS-10	1117	1662	DTPI14PCPEBS-10	1269	1889
12	1.70	43.1	DTPI14PCPEAS-12	1242	1849	DTPI14PCPEBS-12	1400	2083
14	1.84	46.6	DTPI14PCPEAS-14	1494	2223	DTPI14PCPEBS-14	1659	2470
16	1.92	48.7	DTPI14PCPEAS-16	1640	2440	DTPI14PCPEBS-16	1815	2700
17	2.01	51.0	DTPI14PCPEAS-17	1735	2582	DTPI14PCPEBS-17	1919	2856
19	2.01	51.0	DTPI14PCPEAS-19	1842	2741	DTPI14PCPEBS-19	2026	3015
20	2.16	54.9	DTPI14PCPEAS-20	2069	3079	DTPI14PCPEBS-20	2270	3378
24	2.36	60.1	DTPI14PCPEAS-24	2393	3561	DTPI14PCPEBS-24	2616	3892

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.

Technical Data *continued*

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

Conductor Number of Pairs	Unarmored					Armored				
	Nominal OD			Net Weight		Nominal OD			Net Weight	
	in	mm		lb/kft	kg/km	in	mm		lb/kft	kg/km
1	0.47	11.9	DTPI12PCPE-1	120	179	0.52	13.3	DTPI12PCPEB-1	197	294
2	0.83	21.2	DTPI12PCPE-2	261	388	0.89	22.5	DTPI12PCPEB-2	395	588
3	0.93	23.6	DTPI12PCPE-3	384	572	0.98	24.9	DTPI12PCPEB-3	534	794
4	1.02	25.8	DTPI12PCPE-4	478	711	1.07	27.1	DTPI12PCPEB-4	640	953
5	1.11	28.2	DTPI12PCPE-5	573	852	1.16	29.5	DTPI12PCPEB-5	750	1116
6	1.21	30.7	DTPI12PCPE-6	668	995	1.26	32.1	DTPI12PCPEB-6	861	1282
7	1.21	30.7	DTPI12PCPE-7	746	1110	1.26	32.1	DTPI12PCPEB-7	939	1397
8	1.31	33.3	DTPI12PCPE-8	842	1253	1.36	34.6	DTPI12PCPEB-8	1050	1563
10	1.54	39.2	DTPI12PCPE-10	1039	1547	1.60	40.5	DTPI12PCPEB-10	1284	1911
12	1.60	40.5	DTPI12PCPE-12	1204	1792	1.65	41.9	DTPI12PCPEB-12	1457	2169
14	1.68	42.7	DTPI12PCPE-14	1375	2047	1.73	44.0	DTPI12PCPEB-14	1642	2443
16	1.84	46.8	DTPI12PCPE-16	1662	2473	1.89	48.1	DTPI12PCPEB-16	1953	2907
17	1.94	49.3	DTPI12PCPE-17	1764	2625	1.99	50.6	DTPI12PCPEB-17	2071	3082
19	1.94	49.3	DTPI12PCPE-19	1919	2856	1.99	50.6	DTPI12PCPEB-19	2226	3313
20	2.04	51.8	DTPI12PCPE-20	2021	3008	2.09	53.2	DTPI12PCPEB-20	2344	3488
24	2.27	57.7	DTPI12PCPE-24	2389	3555	2.33	59.1	DTPI12PCPEB-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	0.69	17.5	DTPI12PCPEAS-1	229	341	DTPI12PCPEBS-1	283	421
2	1.10	27.9	DTPI12PCPEAS-2	484	720	DTPI12PCPEBS-2	577	858
3	1.19	30.3	DTPI12PCPEAS-3	629	936	DTPI12PCPEBS-3	733	1090
4	1.28	32.5	DTPI12PCPEAS-4	742	1105	DTPI12PCPEBS-4	855	1272
5	1.37	34.9	DTPI12PCPEAS-5	859	1278	DTPI12PCPEBS-5	982	1461
6	1.47	37.5	DTPI12PCPEAS-6	977	1455	DTPI12PCPEBS-6	1111	1654
7	1.47	37.5	DTPI12PCPEAS-7	1055	1570	DTPI12PCPEBS-7	1189	1769
8	1.57	40.0	DTPI12PCPEAS-8	1174	1747	DTPI12PCPEBS-8	1318	1962
10	1.87	47.5	DTPI12PCPEAS-10	1541	2293	DTPI12PCPEBS-10	1710	2545
12	1.92	48.9	DTPI12PCPEAS-12	1721	2561	DTPI12PCPEBS-12	1896	2821
14	2.01	51.1	DTPI12PCPEAS-14	1917	2853	DTPI12PCPEBS-14	2101	3127
16	2.17	55.1	DTPI12PCPEAS-16	2250	3348	DTPI12PCPEBS-16	2452	3648
17	2.27	57.6	DTPI12PCPEAS-17	2381	3543	DTPI12PCPEBS-17	2594	3860
19	2.27	57.6	DTPI12PCPEAS-19	2536	3775	DTPI12PCPEBS-19	2749	4091
20	2.37	60.2	DTPI12PCPEAS-20	2668	3970	DTPI12PCPEBS-20	2891	4302
24	2.60	66.1	DTPI12PCPEAS-24	3103	4618	DTPI12PCPEBS-24	3352	4988

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 Shield

Conductor Number of Pairs	Unarmored					Armored				
	Nominal OD			Net Weight		Nominal OD			Net Weight	
	in	mm		lb/kft	kg/km	in	mm		lb/kft	kg/km
1	0.53	13.5	DTP110PCPE-1	165	246	0.59	14.9	DTP110PCPEB-1	252	375
2	1.00	25.5	DTP110PCPE-2	399	593	1.06	26.8	DTP110PCPEB-2	559	832
3	1.06	27.0	DTP110PCPE-3	527	784	1.12	28.3	DTP110PCPEB-3	697	1037
4	1.17	29.6	DTP110PCPE-4	663	986	1.22	30.9	DTP110PCPEB-4	849	1263
5	1.28	32.5	DTP110PCPE-5	800	1191	1.33	33.8	DTP110PCPEB-5	1004	1494
6	1.40	35.5	DTP110PCPE-6	939	1397	1.45	36.8	DTP110PCPEB-6	1161	1728
7	1.40	35.5	DTP110PCPE-7	1056	1572	1.45	36.8	DTP110PCPEB-7	1278	1902
8	1.52	38.5	DTP110PCPE-8	1195	1778	1.57	39.9	DTP110PCPEB-8	1435	2136
10	1.86	47.2	DTP110PCPE-10	1594	2373	1.91	48.5	DTP110PCPEB-10	1888	2810
12	1.92	48.7	DTP110PCPE-12	1844	2744	1.97	50.1	DTP110PCPEB-12	2147	3195
14	2.02	51.3	DTP110PCPE-14	2103	3129	2.07	52.7	DTP110PCPEB-14	2422	3604
16	2.13	54.2	DTP110PCPE-16	2365	3519	2.19	55.5	DTP110PCPEB-16	2702	4021
17	2.25	57.2	DTP110PCPE-17	2511	3737	2.31	58.5	DTP110PCPEB-17	2866	4266
19	2.25	57.2	DTP110PCPE-19	2745	4085	2.31	58.5	DTP110PCPEB-19	3101	4614
20	2.37	60.2	DTP110PCPE-20	2891	4303	2.42	61.6	DTP110PCPEB-20	3265	4859
24	2.65	67.3	DTP110PCPE-24	3428	5101	2.70	68.6	DTP110PCPEB-24	3845	5721

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	0.75	19.1	DTP110PCPEAS-1	286	425	DTP110PCPEBS-1	346	515
2	1.27	32.2	DTP110PCPEAS-2	660	983	DTP110PCPEBS-2	771	1148
3	1.33	33.7	DTP110PCPEAS-3	803	1194	DTP110PCPEBS-3	920	1370
4	1.43	36.3	DTP110PCPEAS-4	961	1431	DTP110PCPEBS-4	1090	1623
5	1.54	39.2	DTP110PCPEAS-5	1125	1674	DTP110PCPEBS-5	1266	1884
6	1.66	42.2	DTP110PCPEAS-6	1291	1921	DTP110PCPEBS-6	1445	2150
7	1.66	42.2	DTP110PCPEAS-7	1408	2095	DTP110PCPEBS-7	1562	2324
8	1.84	46.9	DTP110PCPEAS-8	1688	2512	DTP110PCPEBS-8	1855	2760
10	2.19	55.5	DTP110PCPEAS-10	2187	3255	DTP110PCPEBS-10	2391	3558
12	2.25	57.1	DTP110PCPEAS-12	2454	3652	DTP110PCPEBS-12	2665	3965
14	2.35	59.7	DTP110PCPEAS-14	2743	4082	DTP110PCPEBS-14	2965	4412
16	2.46	62.6	DTP110PCPEAS-16	3038	4521	DTP110PCPEBS-16	3272	4869
17	2.58	65.6	DTP110PCPEAS-17	3219	4790	DTP110PCPEBS-17	3465	5157
19	2.58	65.6	DTP110PCPEAS-19	3453	5139	DTP110PCPEBS-19	3700	5506
20	2.70	68.6	DTP110PCPEAS-20	3634	5408	DTP110PCPEBS-20	3893	5794
24	3.04	77.3	DTP110PCPEAS-24	4447	6618	DTP110PCPEBS-24	4736	7048

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.