

# Type P Drilmar® 125-XE Signal & Instrumentation

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

**CME**<sup>®</sup>  
wire and cable

A Viakable Company

## 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.

Cables meet applicable requirements of IEC 92-350.

## 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 1580-2001

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

IEEE 45-2002

Recommended Practice for Electrical Installations on Shipboard Cable.

UL 1309-1995

Marine Shipboard Cable.

CSA C22.2 No. 245

Marine Shipboard Cable.

## Approvals

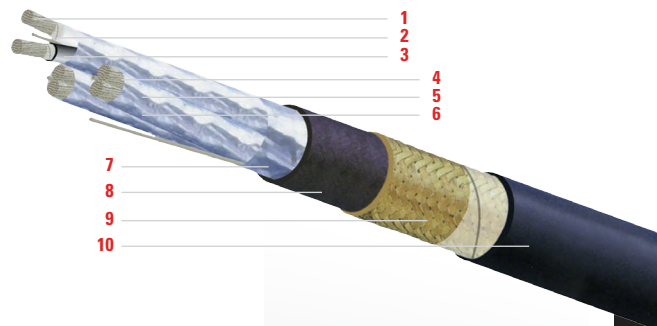
- UL and CSA, as Type P.
- UL and CSA, as Type X110.
- ABS, American Bureau of Shipping.
- DNV, Det Norske Veritas
- LRS, Lloyd's Register of Shipping.
- United States Coast Guard.
- TCMS, Transport Canada Marine Safety.

## 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. Jacket (overall optional):** Flame retardant and sunlight resistant Arctic Type Chlorinated Polyethylene (CPE) per IEEE, UL, and CSA.

Technical Data

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

Conductor	Unarmored					Armored								
	Nominal OD		Part Number	Net Weight		Nominal OD		Aluminum			Bronze			
	in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km	
1	0.35	8.9	DTPI20PCP-1	51	76	0.40	10.3	DTPI20PCPA-1	69	103	DTPI20PCPB-1	110	164	
2	0.60	15.2	DTPI20PCP-2	113	168	0.65	16.5	DTPI20PCPA-2	143	212	DTPI20PCPB-2	210	313	
3	0.63	16.0	DTPI20PCP-3	138	205	0.68	17.3	DTPI20PCPA-3	169	252	DTPI20PCPB-3	240	357	
4	0.69	17.4	DTPI20PCP-4	165	246	0.74	18.7	DTPI20PCPA-4	200	297	DTPI20PCPB-4	276	411	
5	0.75	19.0	DTPI20PCP-5	194	289	0.80	20.3	DTPI20PCPA-5	231	344	DTPI20PCPB-5	315	468	
6	0.81	20.6	DTPI20PCP-6	223	332	0.86	21.9	DTPI20PCPA-6	263	392	DTPI20PCPB-6	354	526	
7	0.81	20.6	DTPI20PCP-7	243	362	0.86	21.9	DTPI20PCPA-7	283	422	DTPI20PCPB-7	374	556	
8	0.92	23.4	DTPI20PCP-8	311	462	0.97	24.7	DTPI20PCPA-8	356	530	DTPI20PCPB-8	458	682	
10	1.07	27.2	DTPI20PCP-10	378	563	1.12	28.5	DTPI20PCPA-10	431	641	DTPI20PCPB-10	549	817	
12	1.10	28.0	DTPI20PCP-12	425	632	1.16	29.3	DTPI20PCPA-12	479	712	DTPI20PCPB-12	601	894	
14	1.16	29.4	DTPI20PCP-14	475	707	1.21	30.7	DTPI20PCPA-14	531	791	DTPI20PCPB-14	659	981	
16	1.22	31.0	DTPI20PCP-16	526	783	1.27	32.3	DTPI20PCPA-16	586	872	DTPI20PCPB-16	720	1072	
17	1.28	32.6	DTPI20PCP-17	558	831	1.34	33.9	DTPI20PCPA-17	621	924	DTPI20PCPB-17	762	1134	
19	1.28	32.6	DTPI20PCP-19	598	891	1.34	33.9	DTPI20PCPA-19	661	984	DTPI20PCPB-19	803	1195	
20	1.35	34.2	DTPI20PCP-20	630	938	1.40	35.6	DTPI20PCPA-20	696	1036	DTPI20PCPB-20	845	1257	
24	1.50	38.0	DTPI20PCP-24	738	1098	1.55	39.4	DTPI20PCPA-24	811	1207	DTPI20PCPB-24	976	1452	

Conductor	Armored & Sheathed							
	Nominal OD		Part Number	Net Weight		Part Number	Net Weight	
	in	mm		lb/kft	kg/km		lb/kft	kg/km
1	0.54	13.7	DTPI20PCPAS-2	122	181	DTPI20PCPBS-2	162	242
2	0.82	20.8	DTPI20PCPAS-3	246	336	DTPI20PCPBS-3	313	466
3	0.85	21.6	DTPI20PCPAS-4	277	412	DTPI20PCPBS-4	348	517
4	0.95	24.1	DTPI20PCPAS-5	354	427	DTPI20PCPBS-5	431	642
5	1.01	25.7	DTPI20PCPAS-6	397	591	DTPI20PCPBS-6	481	715
6	1.08	27.3	DTPI20PCPAS-7	441	656	DTPI20PCPBS-7	531	791
7	1.08	27.3	DTPI20PCPAS-8	461	686	DTPI20PCPBS-8	552	821
8	1.18	30.1	DTPI20PCPAS-9	553	823	DTPI20PCPBS-9	655	975
10	1.33	33.9	DTPI20PCPAS-10	655	975	DTPI20PCPBS-10	773	1151
12	1.37	34.7	DTPI20PCPAS-12	709	1055	DTPI20PCPBS-12	831	1236
14	1.42	36.1	DTPI20PCPAS-14	772	1148	DTPI20PCPBS-14	900	1339
16	1.48	37.7	DTPI20PCPAS-16	837	1246	DTPI20PCPBS-16	972	1446
17	1.55	39.3	DTPI20PCPAS-18	884	1315	DTPI20PCPBS-18	1025	1526
19	1.55	39.3	DTPI20PCPAS-19	924	1375	DTPI20PCPBS-19	1066	1586
20	1.61	40.9	DTPI20PCPAS-20	971	1445	DTPI20PCPBS-20	1119	1666
24	1.83	46.4	DTPI20PCPAS-24	1226	1824	DTPI20PCPBS-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		Aluminum			Bronze		
	in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.37	9.5	DTPI18PCP-1	60	89	0.43	10.8	DTPI18PCPA-1	79	118	DTPI18PCPB-1	122	182
2	0.64	16.2	DTPI18PCP-2	132	197	0.69	17.6	DTPI18PCPA-2	164	244	DTPI18PCPB-2	236	351
3	0.67	17.1	DTPI18PCP-3	164	244	0.73	18.5	DTPI18PCPA-3	198	294	DTPI18PCPB-3	273	407
4	0.74	18.7	DTPI18PCP-4	199	297	0.79	20.0	DTPI18PCPA-4	236	351	DTPI18PCPB-4	318	474
5	0.80	20.4	DTPI18PCP-5	235	350	0.86	21.7	DTPI18PCPA-5	275	409	DTPI18PCPB-5	365	543
6	0.92	23.3	DTPI18PCP-6	310	462	0.97	24.6	DTPI18PCPA-6	355	529	DTPI18PCPB-6	457	681
7	0.92	23.3	DTPI18PCP-7	337	502	0.97	24.6	DTPI18PCPA-7	382	569	DTPI18PCPB-7	484	721
8	0.99	25.1	DTPI18PCP-8	377	561	1.04	26.4	DTPI18PCPA-8	425	633	DTPI18PCPB-8	535	796
10	1.15	29.3	DTPI18PCP-10	460	685	1.21	30.6	DTPI18PCPA-10	517	769	DTPI18PCPB-10	644	959
12	1.19	30.2	DTPI18PCP-12	521	775	1.24	31.5	DTPI18PCPA-12	579	861	DTPI18PCPB-12	710	1057
14	1.25	31.8	DTPI18PCP-14	586	871	1.30	33.1	DTPI18PCPA-14	647	962	DTPI18PCPB-14	785	1168
16	1.32	33.4	DTPI18PCP-16	651	969	1.37	34.8	DTPI18PCPA-16	716	1065	DTPI18PCPB-16	861	1281
17	1.39	35.2	DTPI18PCP-17	691	1028	1.44	36.6	DTPI18PCPA-17	759	1129	DTPI18PCPB-17	912	1357
19	1.39	35.2	DTPI18PCP-19	745	1108	1.44	36.6	DTPI18PCPA-19	812	1209	DTPI18PCPB-19	965	1437
20	1.46	37.0	DTPI18PCP-20	785	1168	1.51	38.4	DTPI18PCPA-20	856	1273	DTPI18PCPB-20	1016	1512
24	1.62	41.2	DTPI18PCP-24	922	1372	1.68	42.5	DTPI18PCPA-24	1001	1489	DTPI18PCPB-24	1179	1754

Conductor	Armored & Sheathed							
	Nominal OD		Part Number	Net Weight		Part Number	Net Weight	
	in	mm		lb/kft	kg/km		lb/kft	kg/km
1	0.59	15.1	DTPI18PCPAS-2	151	225	DTPI18PCPBS-2	194	289
2	0.86	21.8	DTPI18PCPAS-3	273	406	DTPI18PCPBS-3	345	513
3	0.94	23.9	DTPI18PCPAS-4	351	522	DTPI18PCPBS-4	426	634
4	1.00	25.4	DTPI18PCPAS-5	400	595	DTPI18PCPBS-5	482	718
5	1.07	27.1	DTPI18PCPAS-6	451	672	DTPI18PCPBS-6	541	805
6	1.18	30.0	DTPI18PCPAS-7	552	822	DTPI18PCPBS-7	654	974
7	1.18	30.0	DTPI18PCPAS-8	579	862	DTPI18PCPBS-8	681	1014
8	1.25	31.8	DTPI18PCPAS-9	635	945	DTPI18PCPBS-9	745	1108
10	1.42	36.0	DTPI18PCPAS-10	756	1125	DTPI18PCPBS-10	884	1315
12	1.45	36.9	DTPI18PCPAS-12	825	1227	DTPI18PCPBS-12	956	1423
14	1.51	38.5	DTPI18PCPAS-14	904	1345	DTPI18PCPBS-14	1042	1550
16	1.58	40.2	DTPI18PCPAS-16	985	1465	DTPI18PCPBS-16	1130	1681
17	1.65	41.9	DTPI18PCPAS-18	1041	1549	DTPI18PCPBS-18	1193	1776
19	1.65	41.9	DTPI18PCPAS-19	1094	1629	DTPI18PCPBS-19	1247	1856
20	1.72	43.7	DTPI18PCPAS-20	1150	1712	DTPI18PCPBS-20	1311	1950
24	1.95	49.6	DTPI18PCPAS-24	1446	2152	DTPI18PCPBS-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.

**Ampacities:** 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		Aluminum		Bronze			
								Part Number	Net Weight	Part Number	Net Weight		
Number of Pairs	in	mm		lb/kft	kg/km	in	mm		lb/kft	kg/km		lb/kft	kg/km
1	0.40	10.1	DTPI16PCP-1	74	109	0.45	11.5	DTPI16PCPA-1	94	140	DTPI16PCPB-1	140	208
2	0.69	17.6	DTPI16PCP-2	161	240	0.75	18.9	DTPI16PCPA-2	196	291	DTPI16PCPB-2	273	407
3	0.73	18.6	DTPI16PCP-3	204	304	0.79	20.0	DTPI16PCPA-3	241	358	DTPI16PCPB-3	323	481
4	0.80	20.3	DTPI16PCP-4	252	374	0.85	21.7	DTPI16PCPA-4	291	433	DTPI16PCPB-4	381	566
5	0.92	23.4	DTPI16PCP-5	338	503	0.97	24.7	DTPI16PCPA-5	383	570	DTPI16PCPB-5	485	722
6	1.00	25.4	DTPI16PCP-6	390	580	1.05	26.7	DTPI16PCPA-6	439	653	DTPI16PCPB-6	550	818
7	1.00	25.4	DTPI16PCP-7	428	636	1.05	26.7	DTPI16PCPA-7	477	709	DTPI16PCPB-7	587	874
8	1.08	27.4	DTPI16PCP-8	480	714	1.13	28.7	DTPI16PCPA-8	532	792	DTPI16PCPB-8	652	970
10	1.26	32.0	DTPI16PCP-10	588	875	1.31	33.4	DTPI16PCPA-10	650	967	DTPI16PCPB-10	789	1174
12	1.30	33.0	DTPI16PCP-12	671	998	1.35	34.4	DTPI16PCPA-12	734	1093	DTPI16PCPB-12	878	1306
14	1.37	34.8	DTPI16PCP-14	758	1129	1.42	36.1	DTPI16PCPA-14	825	1228	DTPI16PCPB-14	976	1452
16	1.44	36.7	DTPI16PCP-16	847	1261	1.50	38.0	DTPI16PCPA-16	918	1366	DTPI16PCPB-16	1077	1602
17	1.52	38.7	DTPI16PCP-17	899	1338	1.58	40.0	DTPI16PCPA-17	974	1449	DTPI16PCPB-17	1141	1698
19	1.52	38.7	DTPI16PCP-19	975	1451	1.58	40.0	DTPI16PCPA-19	1049	1561	DTPI16PCPB-19	1216	1810
20	1.60	40.7	DTPI16PCP-20	1027	1528	1.65	42.0	DTPI16PCPA-20	1105	1644	DTPI16PCPB-20	1281	1906
24	1.85	47.0	DTPI16PCP-24	1325	1972	1.90	48.3	DTPI16PCPA-24	1415	2106	DTPI16PCPB-24	1618	2407

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	0.62	15.7	DTPI16PCPAS-2	170	252	DTPI16PCPBS-2	216	321
2	0.96	24.3	DTPI16PCPAS-3	352	523	DTPI16PCPBS-3	429	639
3	1.00	25.3	DTPI16PCPAS-4	404	602	DTPI16PCPBS-4	486	724
4	1.06	27.1	DTPI16PCPAS-5	467	695	DTPI16PCPBS-5	556	828
5	1.18	30.1	DTPI16PCPAS-6	580	864	DTPI16PCPBS-6	683	1016
6	1.26	32.1	DTPI16PCPAS-7	650	968	DTPI16PCPBS-7	76	1133
7	1.26	32.1	DTPI16PCPAS-8	688	1024	DTPI16PCPBS-8	799	1189
8	1.34	34.1	DTPI16PCPAS-9	758	1128	DTPI16PCPBS-9	877	1306
10	1.52	38.7	DTPI16PCPAS-10	909	1352	DTPI16PCPBS-10	1048	1559
12	1.57	39.8	DTPI16PCPAS-12	1001	1489	DTPI16PCPBS-12	1144	1703
14	1.63	41.5	DTPI16PCPAS-14	1104	1642	DTPI16PCPBS-14	1254	1867
16	1.71	43.4	DTPI16PCPAS-16	1210	1800	DTPI16PCPBS-16	1369	2037
17	1.85	47.0	DTPI16PCPAS-18	1394	2075	DTPI16PCPBS-18	1562	2324
19	1.85	47.0	DTPI16PCPAS-19	1470	2187	DTPI16PCPBS-19	1637	2437
20	1.93	49.0	DTPI16PCPAS-20	1545	2299	DTPI16PCPBS-20	1721	2561
24	2.18	55.3	DTPI16PCPAS-24	1916	2851	DTPI16PCPBS-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		Net Weight		Net Weight			
	in	mm		lb/kft	kg/km	in	mm	lb/kft	kg/km	lb/kft	kg/km		
1	0.43	10.9	DTPI14PCP-1	92	137	0.48	12.3	DTPI14PCPA-1	114	170	DTPI14PCPB-1	163	243
2	0.76	19.2	DTPI14PCP-2	201	299	0.81	20.5	DTPI14PCPA-2	239	355	DTPI14PCPB-2	323	481
3	0.80	20.3	DTPI14PCP-3	261	388	0.85	21.7	DTPI14PCPA-3	300	447	DTPI14PCPB-3	390	580
4	0.92	23.4	DTPI14PCP-4	363	540	0.97	24.7	DTPI14PCPA-4	408	608	DTPI14PCPB-4	511	760
5	1.00	25.5	DTPI14PCP-5	432	642	1.06	26.8	DTPI14PCPA-5	481	716	DTPI14PCPB-5	592	881
6	1.09	27.7	DTPI14PCP-6	501	746	1.14	29.1	DTPI14PCPA-6	555	825	DTPI14PCPB-6	675	1005
7	1.09	27.7	DTPI14PCP-7	554	825	1.14	29.1	DTPI14PCPA-7	608	905	DTPI14PCPB-7	729	1085
8	1.18	30.0	DTPI14PCP-8	624	928	1.23	31.3	DTPI14PCPA-8	682	1014	DTPI14PCPB-8	812	1208
10	1.39	35.2	DTPI14PCP-10	768	1142	1.44	36.5	DTPI14PCPA-10	835	1243	DTPI14PCPB-10	988	1470
12	1.43	36.3	DTPI14PCP-12	883	1314	1.48	37.7	DTPI14PCPA-12	952	1417	DTPI14PCPB-12	1110	1652
14	1.51	38.3	DTPI14PCP-14	1003	1493	1.56	39.6	DTPI14PCPA-14	1077	1602	DTPI14PCPB-14	1242	1849
16	1.59	40.4	DTPI14PCP-16	1125	1674	1.64	41.7	DTPI14PCPA-16	1202	1789	DTPI14PCPB-16	1377	2049
17	1.68	42.6	DTPI14PCP-17	1194	1778	1.73	44.0	DTPI14PCPA-17	1276	1899	DTPI14PCPB-17	1460	2173
19	1.68	42.6	DTPI14PCP-19	1301	1936	1.73	44.0	DTPI14PCPA-19	1383	2058	DTPI14PCPB-19	1567	2332
20	1.83	46.5	DTPI14PCP-20	1484	2209	1.88	47.9	DTPI14PCPA-20	1573	2341	DTPI14PCPB-20	1774	2640
24	2.04	51.7	DTPI14PCP-24	1748	2601	2.09	53.1	DTPI14PCPA-24	1846	2748	DTPI14PCPB-24	2069	3079

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	0.65	16.5	DTPI14PCPAS-2	194	289	DTPI14PCPBS-2	243	362
2	1.02	25.9	DTPI14PCPAS-3	406	604	DTPI14PCPBS-3	491	730
3	1.06	27.1	DTPI14PCPAS-4	476	709	DTPI14PCPBS-4	566	842
4	1.18	30.1	DTPI14PCPAS-5	606	902	DTPI14PCPBS-5	708	1054
5	1.27	32.2	DTPI14PCPAS-6	693	1032	DTPI14PCPBS-6	805	1197
6	1.36	34.4	DTPI14PCPAS-7	783	1165	DTPI14PCPBS-7	904	1345
7	1.36	34.4	DTPI14PCPAS-8	836	1245	DTPI14PCPBS-8	957	1424
8	1.44	36.7	DTPI14PCPAS-9	926	1378	DTPI14PCPBS-9	1056	1572
10	1.65	41.9	DTPI14PCPAS-10	1117	1662	DTPI14PCPBS-10	1269	1889
12	1.70	43.1	DTPI14PCPAS-12	1242	1849	DTPI14PCPBS-12	1400	2083
14	1.84	46.6	DTPI14PCPAS-14	1494	2223	DTPI14PCPBS-14	1659	2470
16	1.92	48.7	DTPI14PCPAS-16	1640	2440	DTPI14PCPBS-16	1815	2700
17	2.01	51.0	DTPI14PCPAS-18	1735	2582	DTPI14PCPBS-18	1919	2856
19	2.01	51.0	DTPI14PCPAS-19	1842	2741	DTPI14PCPBS-19	2026	3015
20	2.16	54.9	DTPI14PCPAS-20	2069	3079	DTPI14PCPBS-20	2270	3378
24	2.36	60.1	DTPI14PCPAS-24	2393	3561	DTPI14PCPBS-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.

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

Technical Data *continued*

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

Conductor	Unarmored					Armored								
	Nominal OD			Net Weight		Nominal OD			Net Weight			Net Weight		
	in	mm		lb/kft	kg/km	in	mm		lb/kft	kg/km		lb/kft	kg/km	
1	0.47	11.9	DTPI12PCP-1	120	179	0.52	13.3	DTPI12PCPA-1	144	214	DTPI12PCPB-1	197	294	
2	0.83	21.2	DTPI12PCP-2	261	388	0.89	22.5	DTPI12PCPA-2	302	449	DTPI12PCPB-2	395	588	
3	0.93	23.6	DTPI12PCP-3	384	572	0.98	24.9	DTPI12PCPA-3	430	640	DTPI12PCPB-3	534	794	
4	1.02	25.8	DTPI12PCP-4	478	711	1.07	27.1	DTPI12PCPA-4	528	785	DTPI12PCPB-4	640	953	
5	1.11	28.2	DTPI12PCP-5	573	852	1.16	29.5	DTPI12PCPA-5	627	933	DTPI12PCPB-5	750	1116	
6	1.21	30.7	DTPI12PCP-6	668	995	1.26	32.1	DTPI12PCPA-6	728	1083	DTPI12PCPB-6	861	1282	
7	1.21	30.7	DTPI12PCP-7	746	1110	1.26	32.1	DTPI12PCPA-7	805	1198	DTPI12PCPB-7	939	1397	
8	1.31	33.3	DTPI12PCP-8	842	1253	1.36	34.6	DTPI12PCPA-8	906	1348	DTPI12PCPB-8	1050	1563	
10	1.54	39.2	DTPI12PCP-10	1039	1547	1.60	40.5	DTPI12PCPA-10	1115	1659	DTPI12PCPB-10	1284	1911	
12	1.60	40.5	DTPI12PCP-12	1204	1792	1.65	41.9	DTPI12PCPA-12	1282	1908	DTPI12PCPB-12	1457	2169	
14	1.68	42.7	DTPI12PCP-14	1375	2047	1.73	44.0	DTPI12PCPA-14	1457	2168	DTPI12PCPB-14	1642	2443	
16	1.84	46.8	DTPI12PCP-16	1662	2473	1.89	48.1	DTPI12PCPA-16	1751	2606	DTPI12PCPB-16	1953	2907	
17	1.94	49.3	DTPI12PCP-17	1764	2625	1.99	50.6	DTPI12PCPA-17	1858	2765	DTPI12PCPB-17	2071	3082	
19	1.94	49.3	DTPI12PCP-19	1919	2856	1.99	50.6	DTPI12PCPA-19	2014	2996	DTPI12PCPB-19	2226	3313	
20	2.04	51.8	DTPI12PCP-20	2021	3008	2.09	53.2	DTPI12PCPA-20	2120	3155	DTPI12PCPB-20	2344	3488	
24	2.27	57.7	DTPI12PCP-24	2389	3555	2.33	59.1	DTPI12PCPA-24	2499	3719	DTPI12PCPB-24	2748	4089	

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	0.69	17.5	DTPI12PCPAS-2	229	341	DTPI12PCPBS-2	283	421
2	1.10	27.9	DTPI12PCPAS-3	484	720	DTPI12PCPBS-3	577	858
3	1.19	30.3	DTPI12PCPAS-4	629	936	DTPI12PCPBS-4	733	1090
4	1.28	32.5	DTPI12PCPAS-5	742	1105	DTPI12PCPBS-5	855	1272
5	1.37	34.9	DTPI12PCPAS-6	859	1278	DTPI12PCPBS-6	982	1461
6	1.47	37.5	DTPI12PCPAS-7	977	1455	DTPI12PCPBS-7	1111	1654
7	1.47	37.5	DTPI12PCPAS-8	1055	1570	DTPI12PCPBS-8	1189	1769
8	1.57	40.0	DTPI12PCPAS-9	1174	1747	DTPI12PCPBS-9	1318	1962
10	1.87	47.5	DTPI12PCPAS-10	1541	2293	DTPI12PCPBS-10	1710	2545
12	1.92	48.9	DTPI12PCPAS-12	1721	2561	DTPI12PCPBS-12	1896	2821
14	2.01	51.1	DTPI12PCPAS-14	1917	2853	DTPI12PCPBS-14	2101	3127
16	2.17	55.1	DTPI12PCPAS-16	2250	3348	DTPI12PCPBS-16	2452	3648
17	2.27	57.6	DTPI12PCPAS-18	2381	3543	DTPI12PCPBS-18	2594	3860
19	2.27	57.6	DTPI12PCPAS-19	2536	3775	DTPI12PCPBS-19	2749	4091
20	2.37	60.2	DTPI12PCPAS-20	2668	3970	DTPI12PCPBS-20	2891	4302
24	2.60	66.1	DTPI12PCPAS-24	3103	4618	DTPI12PCPBS-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	Unarmored					Armored							
	Nominal OD			Net Weight		Nominal OD			Net Weight		Net Weight		
	in	mm		lb/kft	kg/km	in	mm		lb/kft	kg/km	lb/kft	kg/km	
1	0.53	13.5	DTPI10PCP-1	165	246	0.59	14.9	DTPI10PCPA-1	192	285	DTPI10PCPB-1	252	375
2	1.00	25.5	DTPI10PCP-2	399	593	1.06	26.8	DTPI10PCPA-2	448	667	DTPI10PCPB-2	559	832
3	1.06	27.0	DTPI10PCP-3	527	784	1.12	28.3	DTPI10PCPA-3	579	862	DTPI10PCPB-3	697	1037
4	1.17	29.6	DTPI10PCP-4	663	986	1.22	30.9	DTPI10PCPA-4	720	1071	DTPI10PCPB-4	849	1263
5	1.28	32.5	DTPI10PCP-5	800	1191	1.33	33.8	DTPI10PCPA-5	863	1284	DTPI10PCPB-5	1004	1494
6	1.40	35.5	DTPI10PCP-6	939	1397	1.45	36.8	DTPI10PCPA-6	1007	1499	DTPI10PCPB-6	1161	1728
7	1.40	35.5	DTPI10PCP-7	1056	1572	1.45	36.8	DTPI10PCPA-7	1124	1673	DTPI10PCPB-7	1278	1902
8	1.52	38.5	DTPI10PCP-8	1195	1778	1.57	39.9	DTPI10PCPA-8	1269	1888	DTPI10PCPB-8	1435	2136
10	1.86	47.2	DTPI10PCP-10	1594	2373	1.91	48.5	DTPI10PCPA-10	1684	2507	DTPI10PCPB-10	1888	2810
12	1.92	48.7	DTPI10PCP-12	1844	2744	1.97	50.1	DTPI10PCPA-12	1937	2882	DTPI10PCPB-12	2147	3195
14	2.02	51.3	DTPI10PCP-14	2103	3129	2.07	52.7	DTPI10PCPA-14	2201	3275	DTPI10PCPB-14	2422	3604
16	2.13	54.2	DTPI10PCP-16	2365	3519	2.19	55.5	DTPI10PCPA-16	2468	3673	DTPI10PCPB-16	2702	4021
17	2.25	57.2	DTPI10PCP-17	2511	3737	2.31	58.5	DTPI10PCPA-17	2620	3899	DTPI10PCPB-17	2866	4266
19	2.25	57.2	DTPI10PCP-19	2745	4085	2.31	58.5	DTPI10PCPA-19	2854	4248	DTPI10PCPB-19	3101	4614
20	2.37	60.2	DTPI10PCP-20	2891	4303	2.42	61.6	DTPI10PCPA-20	3006	4474	DTPI10PCPB-20	3265	4859
24	2.65	67.3	DTPI10PCP-24	3428	5101	2.70	68.6	DTPI10PCPA-24	3556	5291	DTPI10PCPB-24	3845	5721

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.75	19.1	DTPI10PCPAS-2	286	425	DTPI10PCPBS-2	346	515
2	1.27	32.2	DTPI10PCPAS-3	660	983	DTPI10PCPBS-3	771	1148
3	1.33	33.7	DTPI10PCPAS-4	803	1194	DTPI10PCPBS-4	920	1370
4	1.43	36.3	DTPI10PCPAS-5	961	1431	DTPI10PCPBS-5	1090	1623
5	1.54	39.2	DTPI10PCPAS-6	1125	1674	DTPI10PCPBS-6	1266	1884
6	1.66	42.2	DTPI10PCPAS-7	1291	1921	DTPI10PCPBS-7	1445	2150
7	1.66	42.2	DTPI10PCPAS-8	1408	2095	DTPI10PCPBS-8	1562	2324
8	1.84	46.9	DTPI10PCPAS-9	1688	2512	DTPI10PCPBS-9	1855	2760
10	2.19	55.5	DTPI10PCPAS-10	2187	3255	DTPI10PCPBS-10	2391	3558
12	2.25	57.1	DTPI10PCPAS-12	2454	3652	DTPI10PCPBS-12	2665	3965
14	2.35	59.7	DTPI10PCPAS-14	2743	4082	DTPI10PCPBS-14	2965	4412
16	2.46	62.6	DTPI10PCPAS-16	3038	4521	DTPI10PCPBS-16	3272	4869
17	2.58	65.6	DTPI10PCPAS-18	3219	4790	DTPI10PCPBS-18	3465	5157
19	2.58	65.6	DTPI10PCPAS-19	3453	5139	DTPI10PCPBS-19	3700	5506
20	2.70	68.6	DTPI10PCPAS-20	3634	5408	DTPI10PCPBS-20	3893	5794
24	3.04	77.3	DTPI10PCPAS-24	4447	6618	DTPI10PCPBS-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.

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