

# 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, IEC 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.

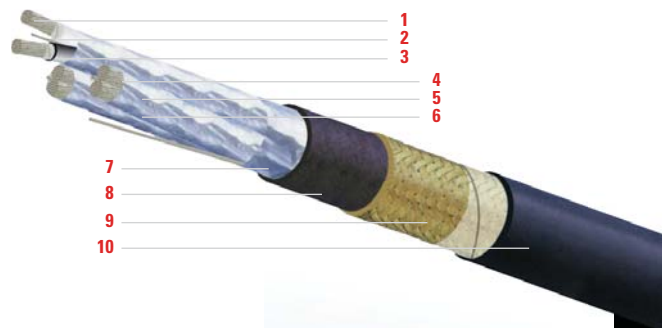
## Engineering Information

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

**Sizes:** 20 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, 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	0.32	8.1	DTPO20PCP-1	47	70	0.37	9.4	DTPO20PCPB-1	101	150
2	0.52	13.3	DTPO20PCP-2	86	128	0.58	14.6	DTPO20PCPB-2	172	255
3	0.59	14.9	DTPO20PCP-3	123	183	0.64	16.2	DTPO20PCPB-3	218	325
4	0.64	16.2	DTPO20PCP-4	146	218	0.69	17.6	DTPO20PCPB-4	250	372
5	0.70	17.7	DTPO20PCP-5	171	254	0.75	19.0	DTPO20PCPB-5	283	422
6	0.76	19.3	DTPO20PCP-6	195	291	0.81	20.6	DTPO20PCPB-6	318	473
7	0.76	19.3	DTPO20PCP-7	211	314	0.81	20.6	DTPO20PCPB-7	333	496
8	0.82	20.8	DTPO20PCP-8	236	351	0.87	22.1	DTPO20PCPB-8	368	547
10	1.01	25.5	DTPO20PCP-10	330	491	1.06	26.9	DTPO20PCPB-10	491	731
12	1.04	26.3	DTPO20PCP-12	368	547	1.09	27.7	DTPO20PCPB-12	533	794
14	1.09	27.7	DTPO20PCP-14	409	609	1.14	29.0	DTPO20PCPB-14	583	868
16	1.15	29.2	DTPO20PCP-16	452	673	1.20	30.5	DTPO20PCPB-16	635	945
17	1.21	30.7	DTPO20PCP-17	479	713	1.26	32.1	DTPO20PCPB-17	672	1000
19	1.21	30.7	DTPO20PCP-19	511	761	1.26	32.1	DTPO20PCPB-19	704	1048
20	1.27	32.3	DTPO20PCP-20	539	801	1.32	33.6	DTPO20PCPB-20	741	1102
24	1.41	35.9	DTPO20PCP-24	629	936	1.47	37.2	DTPO20PCPB-24	853	1270

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.51	12.9	DTPO20PCPAS-1	112	167	DTPO20PCPBS-1	149	222
2	0.74	18.9	DTPO20PCPAS-2	205	305	DTPO20PCPBS-2	265	394
3	0.81	20.5	DTPO20PCPAS-3	254	377	DTPO20PCPBS-3	320	476
4	0.86	21.8	DTPO20PCPAS-4	287	427	DTPO20PCPBS-4	359	534
5	0.96	24.4	DTPO20PCPAS-5	362	539	DTPO20PCPBS-5	440	655
6	1.02	26.0	DTPO20PCPAS-6	401	596	DTPO20PCPBS-6	486	723
7	1.02	26.0	DTPO20PCPAS-7	417	620	DTPO20PCPBS-7	502	746
8	1.08	27.5	DTPO20PCPAS-8	455	678	DTPO20PCPBS-8	547	814
10	1.27	32.3	DTPO20PCPAS-10	592	881	DTPO20PCPBS-10	704	1047
12	1.30	33.0	DTPO20PCPAS-12	637	948	DTPO20PCPBS-12	752	1119
14	1.35	34.4	DTPO20PCPAS-14	691	1028	DTPO20PCPBS-14	811	1208
16	1.41	35.9	DTPO20PCPAS-16	747	1111	DTPO20PCPBS-16	874	1300
17	1.47	37.4	DTPO20PCPAS-17	788	1173	DTPO20PCPBS-17	922	1372
19	1.47	37.4	DTPO20PCPAS-19	820	1220	DTPO20PCPBS-19	954	1419
20	1.54	39.0	DTPO20PCPAS-20	861	1282	DTPO20PCPBS-20	1002	1490
24	1.68	42.6	DTPO20PCPAS-24	984	1464	DTPO20PCPBS-24	1140	1696

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, 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	0.34	8.6	DTPO18PCP-1	56	83	0.39	10.0	DTPO18PCPB-1	113	168
2	0.60	15.1	DTPO18PCP-2	120	179	0.65	16.5	DTPO18PCPB-2	217	323
3	0.63	16.0	DTPO18PCP-3	147	218	0.68	17.3	DTPO18PCPB-3	249	371
4	0.69	17.5	DTPO18PCP-4	176	262	0.74	18.8	DTPO18PCPB-4	288	428
5	0.75	19.1	DTPO18PCP-5	207	308	0.81	20.4	DTPO18PCPB-5	328	489
6	0.82	20.8	DTPO18PCP-6	238	354	0.87	22.2	DTPO18PCPB-6	370	551
7	0.82	20.8	DTPO18PCP-7	259	386	0.87	22.2	DTPO18PCPB-7	391	583
8	0.93	23.7	DTPO18PCP-8	329	490	0.98	25.0	DTPO18PCPB-8	479	712
10	1.09	27.7	DTPO18PCP-10	401	597	1.14	29.0	DTPO18PCPB-10	575	856
12	1.12	28.5	DTPO18PCP-12	450	670	1.18	29.9	DTPO18PCPB-12	630	937
14	1.18	30.0	DTPO18PCP-14	504	750	1.23	31.3	DTPO18PCPB-14	692	1030
16	1.25	31.6	DTPO18PCP-16	559	832	1.30	33.0	DTPO18PCPB-16	757	1127
17	1.31	33.4	DTPO18PCP-17	593	882	1.37	34.7	DTPO18PCPB-17	802	1193
19	1.31	33.4	DTPO18PCP-19	636	946	1.37	34.7	DTPO18PCPB-19	845	1257
20	1.38	35.1	DTPO18PCP-20	670	996	1.43	36.4	DTPO18PCPB-20	889	1323
24	1.54	39.1	DTPO18PCP-24	784	1167	1.59	40.4	DTPO18PCPB-24	1028	1530

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.53	13.4	DTPO18PCPAS-1	124	184	DTPO18PCPBS-1	164	243
2	0.82	20.7	DTPO18PCPAS-2	253	376	DTPO18PCPBS-2	320	477
3	0.85	21.6	DTPO18PCPAS-3	286	425	DTPO18PCPBS-3	357	531
4	0.95	24.2	DTPO18PCPAS-4	366	545	DTPO18PCPBS-4	443	660
5	1.02	25.8	DTPO18PCPAS-5	411	612	DTPO18PCPBS-5	496	737
6	1.08	27.6	DTPO18PCPAS-6	458	681	DTPO18PCPBS-6	549	817
7	1.08	27.6	DTPO18PCPAS-7	479	713	DTPO18PCPBS-7	571	849
8	1.20	30.4	DTPO18PCPAS-8	575	855	DTPO18PCPBS-8	678	1009
10	1.35	34.4	DTPO18PCPAS-10	682	1015	DTPO18PCPBS-10	803	1195
12	1.39	35.2	DTPO18PCPAS-12	739	1100	DTPO18PCPBS-12	864	1285
14	1.45	36.7	DTPO18PCPAS-14	806	1200	DTPO18PCPBS-14	937	1394
16	1.51	38.4	DTPO18PCPAS-16	876	1303	DTPO18PCPBS-16	1013	1508
17	1.58	40.1	DTPO18PCPAS-17	925	1377	DTPO18PCPBS-17	1070	1593
19	1.58	40.1	DTPO18PCPAS-19	968	1441	DTPO18PCPBS-19	1113	1656
20	1.65	41.8	DTPO18PCPAS-20	1018	1514	DTPO18PCPBS-20	1170	1741
24	1.87	47.4	DTPO18PCPAS-24	1284	1911	DTPO18PCPBS-24	1453	2162

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, 16 AWG-26 Strands, 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	0.37	9.3	DTPO16PCP-1	69	102	0.42	10.7	DTPO16PCPB-1	130	194
2	0.65	16.5	DTPO16PCP-2	147	219	0.70	17.8	DTPO16PCPB-2	253	376
3	0.69	17.5	DTPO16PCP-3	183	272	0.74	18.8	DTPO16PCPB-3	294	438
4	0.75	19.2	DTPO16PCP-4	222	330	0.81	20.5	DTPO16PCPB-4	344	512
5	0.83	21.0	DTPO16PCP-5	262	390	0.88	22.3	DTPO16PCPB-5	395	588
6	0.95	24.0	DTPO16PCP-6	343	510	1.00	25.3	DTPO16PCPB-6	494	735
7	0.95	24.0	DTPO16PCP-7	373	555	1.00	25.3	DTPO16PCPB-7	524	780
8	1.02	25.9	DTPO16PCP-8	417	620	1.07	27.3	DTPO16PCPB-8	580	863
10	1.20	30.4	DTPO16PCP-10	509	758	1.25	31.7	DTPO16PCPB-10	700	1042
12	1.24	31.4	DTPO16PCP-12	577	858	1.29	32.7	DTPO16PCPB-12	773	1151
14	1.30	33.0	DTPO16PCP-14	649	966	1.35	34.4	DTPO16PCPB-14	856	1274
16	1.37	34.9	DTPO16PCP-16	722	1075	1.43	36.2	DTPO16PCPB-16	940	1400
17	1.45	36.8	DTPO16PCP-17	766	1141	1.50	38.1	DTPO16PCPB-17	996	1483
19	1.45	36.8	DTPO16PCP-19	827	1230	1.50	38.1	DTPO16PCPB-19	1057	1572
20	1.52	38.7	DTPO16PCP-20	871	1296	1.58	40.1	DTPO16PCPB-20	1113	1656
24	1.70	43.2	DTPO16PCP-24	1023	1523	1.75	44.5	DTPO16PCPB-24	1293	1924

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.59	14.9	DTPO16PCPAS-1	159	236	DTPO16PCPBS-1	201	300
2	0.91	23.2	DTPO16PCPAS-2	328	488	DTPO16PCPBS-2	401	597
3	0.95	24.2	DTPO16PCPAS-3	372	554	DTPO16PCPBS-3	450	669
4	1.02	25.9	DTPO16PCPAS-4	427	635	DTPO16PCPBS-4	511	760
5	1.09	27.7	DTPO16PCPAS-5	483	719	DTPO16PCPBS-5	575	856
6	1.21	30.7	DTPO16PCPAS-6	591	879	DTPO16PCPBS-6	696	1036
7	1.21	30.7	DTPO16PCPAS-7	621	924	DTPO16PCPBS-7	726	1081
8	1.29	32.7	DTPO16PCPAS-8	683	1016	DTPO16PCPBS-8	796	1184
10	1.46	37.1	DTPO16PCPAS-10	815	1213	DTPO16PCPBS-10	948	1410
12	1.50	38.1	DTPO16PCPAS-12	891	1327	DTPO16PCPBS-12	1028	1530
14	1.57	39.8	DTPO16PCPAS-14	979	1456	DTPO16PCPBS-14	1122	1670
16	1.64	41.6	DTPO16PCPAS-16	1068	1590	DTPO16PCPBS-16	1220	1815
17	1.71	43.5	DTPO16PCPAS-17	1130	1681	DTPO16PCPBS-17	1289	1919
19	1.71	43.5	DTPO16PCPAS-19	1190	1771	DTPO16PCPBS-19	1350	2008
20	1.85	47.1	DTPO16PCPAS-20	1366	2033	DTPO16PCPBS-20	1534	2283
24	2.03	51.5	DTPO16PCPAS-24	1570	2337	DTPO16PCPBS-24	1757	2615

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, 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	0.40	10.1	DTPO14PCP-1	87	130	0.45	11.5	DTPO14PCPB-1	153	228
2	0.71	18.1	DTPO14PCP-2	184	273	0.77	19.4	DTPO14PCPB-2	299	445
3	0.76	19.2	DTPO14PCP-3	232	346	0.81	20.5	DTPO14PCPB-3	354	527
4	0.83	21.1	DTPO14PCP-4	285	424	0.88	22.4	DTPO14PCPB-4	419	623
5	0.95	24.2	DTPO14PCP-5	379	564	1.01	25.6	DTPO14PCPB-5	532	791
6	1.04	26.4	DTPO14PCP-6	437	650	1.09	27.7	DTPO14PCPB-6	603	897
7	1.04	26.4	DTPO14PCP-7	479	713	1.09	27.7	DTPO14PCPB-7	645	961
8	1.12	28.6	DTPO14PCP-8	537	800	1.18	29.9	DTPO14PCPB-8	717	1067
10	1.32	33.6	DTPO14PCP-10	659	980	1.37	34.9	DTPO14PCPB-10	869	1293
12	1.37	34.7	DTPO14PCP-12	752	1119	1.42	36.0	DTPO14PCPB-12	969	1442
14	1.44	36.6	DTPO14PCP-14	850	1265	1.49	37.9	DTPO14PCPB-14	1079	1605
16	1.52	38.6	DTPO14PCP-16	950	1413	1.57	39.9	DTPO14PCPB-16	1191	1772
17	1.60	40.8	DTPO14PCP-17	1008	1500	1.66	42.1	DTPO14PCPB-17	1262	1879
19	1.60	40.8	DTPO14PCP-19	1093	1626	1.66	42.1	DTPO14PCPB-19	1347	2005
20	1.69	42.9	DTPO14PCP-20	1151	1713	1.74	44.2	DTPO14PCPB-20	1419	2111
24	1.95	49.6	DTPO14PCP-24	1478	2200	2.00	50.9	DTPO14PCPB-24	1787	2659

Conductor	Armored & Sheathed							
	Nominal OD		Part Number	Aluminum		Part Number	Bronze	
	in	mm		Net Weight	Net Weight		Net Weight	Net Weight
Number of Pairs			lb/kft	kg/km		lb/kft	kg/km	
1	0.62	15.7	DTPO14PCPAS-1	183	272	DTPO14PCPBS-1	229	341
2	0.98	24.8	DTPO14PCPAS-2	379	564	DTPO14PCPBS-2	459	682
3	1.02	25.9	DTPO14PCPAS-3	437	651	DTPO14PCPBS-3	522	777
4	1.09	27.8	DTPO14PCPAS-4	507	755	DTPO14PCPBS-4	600	892
5	1.22	30.9	DTPO14PCPAS-5	629	936	DTPO14PCPBS-5	735	1094
6	1.30	33.1	DTPO14PCPAS-6	707	1052	DTPO14PCPBS-6	822	1223
7	1.30	33.1	DTPO14PCPAS-7	749	1115	DTPO14PCPBS-7	864	1286
8	1.39	35.3	DTPO14PCPAS-8	827	1230	DTPO14PCPBS-8	951	1415
10	1.59	40.3	DTPO14PCPAS-10	993	1478	DTPO14PCPBS-10	1139	1695
12	1.63	41.4	DTPO14PCPAS-12	1096	1631	DTPO14PCPBS-12	1247	1855
14	1.70	43.3	DTPO14PCPAS-14	1212	1803	DTPO14PCPBS-14	1370	2039
16	1.85	46.9	DTPO14PCPAS-16	1444	2149	DTPO14PCPBS-16	1611	2398
17	1.93	49.1	DTPO14PCPAS-17	1527	2272	DTPO14PCPBS-17	1703	2535
19	1.93	49.1	DTPO14PCPAS-19	1612	2399	DTPO14PCPBS-19	1788	2661
20	2.02	51.3	DTPO14PCPAS-20	1695	2522	DTPO14PCPBS-20	1880	2798
24	2.28	57.9	DTPO14PCPAS-24	2099	3123	DTPO14PCPBS-24	2312	3441

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, 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	0.44	11.1	DTPO12PCP-1	115	171	0.49	12.4	DTPO12PCPB-1	187	279
2	0.79	20.1	DTPO12PCP-2	238	354	0.84	21.4	DTPO12PCPB-2	365	544
3	0.84	21.4	DTPO12PCP-3	306	456	0.89	22.7	DTPO12PCPB-3	442	657
4	0.97	24.6	DTPO12PCP-4	420	625	1.02	25.9	DTPO12PCPB-4	575	856
5	1.06	26.9	DTPO12PCP-5	499	742	1.11	28.3	DTPO12PCPB-5	668	994
6	1.16	29.4	DTPO12PCP-6	578	860	1.21	30.7	DTPO12PCPB-6	763	1135
7	1.16	29.4	DTPO12PCP-7	639	952	1.21	30.7	DTPO12PCPB-7	824	1226
8	1.25	31.9	DTPO12PCP-8	719	1070	1.31	33.2	DTPO12PCPB-8	918	1367
10	1.48	37.6	DTPO12PCP-10	883	1315	1.53	38.9	DTPO12PCPB-10	1118	1664
12	1.53	38.9	DTPO12PCP-12	1016	1511	1.58	40.2	DTPO12PCPB-12	1258	1873
14	1.61	41.0	DTPO12PCP-14	1154	1717	1.67	42.3	DTPO12PCPB-14	1410	2098
16	1.71	43.3	DTPO12PCP-16	1294	1926	1.76	44.7	DTPO12PCPB-16	1564	2328
17	1.87	47.4	DTPO12PCP-17	1489	2216	1.92	48.7	DTPO12PCPB-17	1784	2655
19	1.87	47.4	DTPO12PCP-19	1612	2399	1.92	48.7	DTPO12PCPB-19	1907	2838
20	1.96	49.9	DTPO12PCP-20	1697	2526	2.02	51.2	DTPO12PCPB-20	2008	2988
24	2.19	55.6	DTPO12PCP-24	1999	2975	2.24	56.9	DTPO12PCPB-24	2345	3489

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.66	16.7	DTPO12PCPAS-1	218	325	DTPO12PCPBS-1	268	399
2	1.06	26.8	DTPO12PCPAS-2	451	671	DTPO12PCPBS-2	539	803
3	1.11	28.1	DTPO12PCPAS-3	531	790	DTPO12PCPBS-3	625	930
4	1.23	31.3	DTPO12PCPAS-4	674	1002	DTPO12PCPBS-4	781	1162
5	1.32	33.7	DTPO12PCPAS-5	773	1151	DTPO12PCPBS-5	891	1326
6	1.42	36.1	DTPO12PCPAS-6	875	1302	DTPO12PCPBS-6	1003	1492
7	1.42	36.1	DTPO12PCPAS-7	936	1393	DTPO12PCPBS-7	1064	1584
8	1.52	38.6	DTPO12PCPAS-8	1038	1544	DTPO12PCPBS-8	1176	1750
10	1.81	45.9	DTPO12PCPAS-10	1366	2033	DTPO12PCPBS-10	1529	2275
12	1.86	47.2	DTPO12PCPAS-12	1513	2251	DTPO12PCPBS-12	1681	2502
14	1.94	49.3	DTPO12PCPAS-14	1675	2493	DTPO12PCPBS-14	1853	2757
16	2.03	51.7	DTPO12PCPAS-16	1842	2742	DTPO12PCPBS-16	2030	3021
17	2.20	55.8	DTPO12PCPAS-17	2085	3102	DTPO12PCPBS-17	2289	3407
19	2.20	55.8	DTPO12PCPAS-19	2207	3285	DTPO12PCPBS-19	2412	3590
20	2.29	58.2	DTPO12PCPAS-20	2321	3454	DTPO12PCPBS-20	2536	3774
24	2.52	64.0	DTPO12PCPAS-24	2689	4001	DTPO12PCPBS-24	2928	4358

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, 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	12.7	DTPO10PCP-1	159	237	0.55	14.0	DTPO10PCPB-1	242	360
2	0.96	24.4	DTPO10PCP-2	365	544	1.01	25.7	DTPO10PCPB-2	519	772
3	1.02	25.9	DTPO10PCP-3	469	698	1.07	27.2	DTPO10PCPB-3	632	940
4	1.12	28.4	DTPO10PCP-4	580	863	1.17	29.7	DTPO10PCPB-4	759	1129
5	1.23	31.2	DTPO10PCP-5	693	1031	1.28	32.6	DTPO10PCPB-5	889	1323
6	1.34	34.2	DTPO10PCP-6	807	1201	1.40	35.5	DTPO10PCPB-6	1021	1519
7	1.34	34.2	DTPO10PCP-7	900	1339	1.40	35.5	DTPO10PCPB-7	1113	1657
8	1.46	37.1	DTPO10PCP-8	1013	1508	1.51	38.4	DTPO10PCPB-8	1245	1853
10	1.73	43.9	DTPO10PCP-10	1248	1858	1.78	45.3	DTPO10PCPB-10	1522	2265
12	1.85	47.1	DTPO10PCP-12	1560	2321	1.91	48.4	DTPO10PCPB-12	1853	2757
14	1.95	49.6	DTPO10PCP-14	1770	2633	2.01	51.0	DTPO10PCPB-14	2078	3093
16	2.06	52.4	DTPO10PCP-16	1982	2950	2.12	53.7	DTPO10PCPB-16	2308	3435
17	2.18	55.3	DTPO10PCP-17	2103	3130	2.23	56.7	DTPO10PCPB-17	2447	3642
19	2.18	55.3	DTPO10PCP-19	2289	3406	2.23	56.7	DTPO10PCPB-19	2633	3918
20	2.29	58.3	DTPO10PCP-20	2410	3586	2.35	59.6	DTPO10PCPB-20	2772	4125
24	2.56	65.1	DTPO10PCP-24	2847	4237	2.62	66.4	DTPO10PCPB-24	3251	4838

Conductor	Armored & Sheathed							
	Nominal OD		Aluminum			Bronze		
	in	mm	Part Number	lb/kft	kg/km	Part Number	lb/kft	kg/km
1	0.72	18.3	DTPO10PCPAS-1	274	408	DTPO10PCPBS-1	331	493
2	1.22	31.1	DTPO10PCPAS-2	617	918	DTPO10PCPBS-2	724	1077
3	1.28	32.6	DTPO10PCPAS-3	734	1092	DTPO10PCPBS-3	847	1261
4	1.64	35.1	DTPO10PCPAS-4	868	1292	DTPO10PCPBS-4	992	1476
5	1.49	37.9	DTPO10PCPAS-5	1006	1497	DTPO10PCPBS-5	1142	1699
6	1.61	40.9	DTPO10PCPAS-6	1147	1706	DTPO10PCPBS-6	1295	1927
7	1.61	40.9	DTPO10PCPAS-7	1239	1844	DTPO10PCPBS-7	1387	2065
8	1.72	43.8	DTPO10PCPAS-8	1380	2053	DTPO10PCPBS-8	1540	2292
10	2.06	52.3	DTPO10PCPAS-10	1804	2685	DTPO10PCPBS-10	1994	2967
12	2.18	55.4	DTPO10PCPAS-12	2151	3201	DTPO10PCPBS-12	2354	3504
14	2.28	58.0	DTPO10PCPAS-14	2390	3557	DTPO10PCPBS-14	2604	3875
16	2.39	60.8	DTPO10PCPAS-16	2635	3921	DTPO10PCPBS-16	2861	4257
17	2.51	63.7	DTPO10PCPAS-17	2790	4152	DTPO10PCPBS-17	3028	4507
19	2.51	63.7	DTPO10PCPAS-19	2975	4428	DTPO10PCPBS-19	3214	4782
20	2.62	66.6	DTPO10PCPAS-20	3130	4658	DTPO10PCPBS-20	3381	5031
24	2.96	75.2	DTPO10PCPAS-24	3836	5709	DTPO10PCPBS-24	4116	6126

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.

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