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spec P7279TPVFD-SP

**STANDARD VFD POWER CABLE
2kV UNARMORED AND SHIELDED
TYPE P THREE CONDUCTOR**

INSULATION: **XLPO**

OUTER JACKET: **FLAME RETARDANT**

SIZES: **14 AWG – 777 MCM**



1.0 Applications

- 1.1 Extra flexible power cable designed for the demanding environments of offshore drilling and petroleum facilities located throughout the world.

2.0 Features

- High strand count conductors make this product extremely flexible, easier to install and more resistant to vibration than Type MC, IEC spec or commercial cables.
- Lower dielectric constant and higher insulation resistance reduces electrical losses.
- Excellent resistance to moisture produces stable electrical properties throughout the life of the cable.
- In fire conditions non chlorinated flame retardant system produces less toxic and loss corrosive gasses.
- Dual certified IEEE 1580 Type P and UL 1309/CSA C22.2 No.245 Type X110
- Highest ampacity ratings, ABS 100°C, DNV 95°C, LRS 95°C, Transport Canada 95°C
- Severe cold durability exceeds CSA cold bend/cold impact (-40/-35°C)
- CSA listed as Marine Shipboard Cable

3.0 Construction

3.1 Conductors:

Soft annealed flexible stranded tinned coated copper per IEEE 1580 Table 11.

3.2 Insulation:

Flame Retardant Cross-Linked Polyolefin (XLPO), meeting the requirements for type P of IEEE 1580 and Type X110 of UL 1309/CSA C22.2 no. 245

Dark gray with printed phrase I.D.

3.3 Jacket:

Black, arctic grade, flame retardant, oil, abrasion, chemical and sunlight resistant thermosetting compound meeting UL 1309/CSA C22.2 No. 2245 and IEEE 1580.

3.4 Shield:

Tinned copper basket weave wire armor per IEEE 1580 and UL 1309/CSA 245 plus aluminum/polyester tape providing 100% coverage.

4.0 DIMENSIONS

PAIGE PART #	SIZE AWG KCMIL	CDRS	NOMINAL DIAMETER	CABLE WEIGHT	INSULATED GROUNDING CONDUCTOR (x3) SIZE	AMPACITY			
			Inches	(LB/MFT*)	AWG	110C	100°C	95°C	75°C
	14	3	0.630	211	18	27	25	24	20
	12	3	0.675	262	18	33	31	29	24
	10	3	0.750	371	14	44	41	38	32
0703150	8	3	0.805	463	14	56	52	48	41
0703152	6	3	0.910	656	12	75	70	65	54
0703160	4	3	1.094	925	12	99	92	83	70
0703176	2	3	1.235	1271	10	131	122	111	93
0703177	1	3	1.341	1585	10	153	143	131	110
0703178	1/0	3	1.450	1869	10	176	164	150	126
0703180	2/0	3	1.580	2311	10	201	188	173	145
0703185	4/0	3	1.900	3457	8	270	252	232	194
0703186	262	3	2.050	4177	6	315	294	273	228
0703187	313	3	2.130	4786	6	344	321	298	249
0703188	373	3	2.275	5521	6	387	361	332	277
0703189	444	3	2.425	6440	6	440	411	382	319
0703190	535	3	2.643	7848	6	498	443	407	340
0703191	646	3	2.920	9213	4	553	516	474	396
0703193	777	3	3.102	10909	4	602	562	516	431

*Cable diameters show as nominal are subject to a ± 5% manufacturing tolerance.

VFD CABLE AMPACITY RATINGS

110°C Ratings	110°C Ratings	95°C Ratings	90°C Ratings	75°C Ratings
Based on IEEE 45 with a 45°C ambient and arranged in a single bank per hanger. For those instances where cable must be double banked, the 110°C ampacities should be multiplied by 0.8.	Based on IEEE 45 with a 45°C ambient and arranged in a single bank per hanger. For those instances where cable must be double banked, the 110°C ampacities should be multiplied by 0.8.	Based on 4-3-4/Table 10 of the 2006 ABS MODU rules and a 45°C ambient.	Based on ICEA Table 1-1-1 H-1 for a single isolated cable in air with a 40°C ambient. This ampacity is typically used for mining and other portable applications	Based on NEC Table 310.16 for cables in raceway and a 30°C ambient