



Offshore and
Marine Shipboard
Cables

IEEE 1580 Type P MOR[®] Polyrad[®] XT-125 Armored & Sheathed



Flexible Variable Frequency Drive Power Armored & Sheathed 2kV/1000V



Product Construction:

1. Conductor:

- 8 AWG thru 777 kcmil soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad[®] XT-125 Irradiated Cross-Linked Polyolefin (XLPO)
- Color Code: All black with printed numbers

3. Ground:

- 3 split green insulated flexible tinned copper conductors sized to UL 1277

4. Shield:

- Overall tinned copper braid with aluminum/polyester tape – 100% coverage for enhanced shield effectiveness required by VFD applications

5. Sheath:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

6. Armor:

- Bronze braid 88% minimum coverage

7. Sheath:

- Mud Oil Resistant, Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

8. Print: (Including but not limited to)

- MOR[®] POLYRAD[®] XT-125 VFD (UL) E85994 BR782B 110C 3C XXAWG+3GRNDS SHIELDED OR (CSA) 245/1309 FT4 -40C SR OR (ETL) US 109229 IEEE 1580-2001 IEC 1KV 60332.3A DAY/MONTH/YEAR, SEQUENTIAL MARK

9. Option:

- Full-sized insulated ground wires
- Uninsulated ground wires

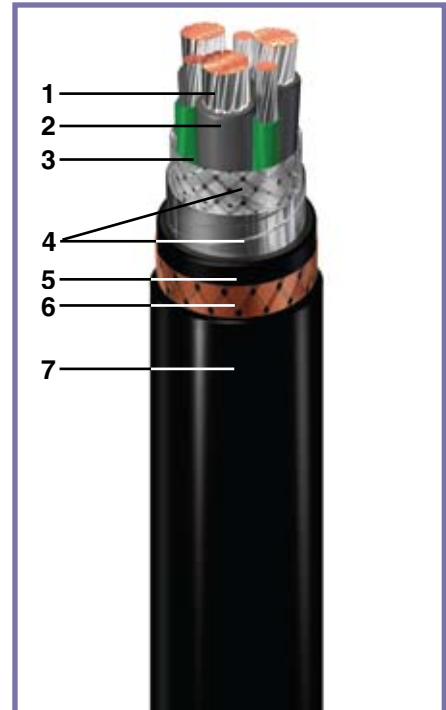
Applications:

- AC motor variable frequency drives
- Offshore oil and gas drilling platforms, MODUs, ships and FPSOs
- Land-based oil and gas drilling rigs
- Suitable for use in Class I, Division 1 and Zone 1 environments

Features:

- Meets NEK 606 mud oil resistance requirements including ester-based muds
- Meets UL 2225 crush and impact requirements of Type MC-HL cables
- Flexible stranding to facilitate ease of cable installation and termination
- Temperature rated @ 125°C for long life, higher ampacities and protection from thermal overloads
- Meets cold bend test at -55°C
- Meets cold impact test at -40°C

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Compliances:

Industry:

- API-RP14F
- CSA C22.2 No. 245 Type X110
- IEEE 1580 Type P
- IEC 60092-3
- NEK 606 for mud oil resistance
- UL 1309 Type X110
- UL Listed 110°C Marine Shipboard Cable

Flame Test:

- IEEE 383
- IEEE 1202
- IEC 60332-3-22 Cat. A (supersedes IEC 60332-3A)
- CSA C22.2 No. 0.3 FT4



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CATALOG NUMBER (VFD)	# OF CORES	COND. SIZE (AWG)	GROUNDING COND. SIZE (AWG)	NOMINAL CABLE DIAMETER		NET WEIGHT		AMPACITIES ¹ 45°C AMBIENT-SINGLE BANKED			
				INCHES	mm	LBS/1000 FT	kg/km	95°C	100°C	110°C	125°C
381820IG	3	8	3 x #14	0.960	24.38	665	990	50	52	56	63
381830IG	3	6	3 x #12	1.045	26.54	940	1400	67	70	75	91
381840IG	3	4	3 x #12	1.265	32.13	1325	1970	87	92	99	126
381850IG	3	2	3 x #10	1.405	35.69	1710	2545	116	122	131	161
381860IG	3	1	3 x #10	1.590	40.39	2170	3230	137	143	153	202
359690IG	3	1/0	3 x #10	1.965	49.91	2700	4018	157	164	176	229
359700IG	3	2/0	3 x #10	2.035	51.69	2930	4360	180	188	201	254
359710IG	3	3/0	3 x #8	2.150	54.61	3780	5625	209	218	233	313
353040IG	3	4/0	3 x #8	2.210	56.13	4330	6443	242	252	270	354
359720IG	3	262	3 x #6	2.420	61.47	4995	7433	283	294	310	395
359730IG	3	313	3 x #6	2.585	65.66	5650	8408	309	321	345	442
359740IG	3	373	3 x #6	2.770	70.36	6785	10097	361	375	406	492
387870IG	3	444	3 x #6	2.985	75.82	7590	11294	396	411	454	594
14448.036600IG ²	3	535	3 x #6	3.205	81.41	8950	13318	448	465	511	608
14448.036800IG ²	3	646	3 x #4	3.305	83.95	10190	15163	492	510	525	678
14448.037000IG ²	3	777	3 x #4	3.595	91.31	12465	18548	552	573	640	750

Note: Dimensions and weights are nominal; subject to industry tolerances.

¹Reference Ampacity section

²Thermoset CPE jacket (XL-CPE) not tested to NEK 606 Mud Oil Resistance.