



IEEE 1580 Type P MOR® Polyrad® XT-125, Unarmored



**Flexible Variable Frequency Drive Power
Unarmored
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:

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

6. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 VFD (UL) E85994 BR782 110C 3C XXAWG+3GRNDS SHIELDED OR TC-ER XHHW OR (CSA) 245/1309 FT4 -40C SR OR 600V RW75 XLPE TC OR (ETL) US 109229 IEEE 1580-2001 IEC 1KV 60332.3A DAY/MONTH/YEAR SEQUENTIAL MARK APPLY WHITE LONGITUDINAL STRIPE 90 DEGREES OVER FROM PRINT LEGEND

7. Option:

- Overall braid wire armor
- 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 2 and Zone 2 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
- Permitted for exposed run "ER" (open wiring) use in accordance with NEC
- 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



Offshore and
Marine Shipboard
Cables

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CATALOG NUMBER (VFD)	# OF CORES	COND. (AWG) SIZE	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
381780IG	3	8	3 x #14	0.765	19.43	450	670	50	52	56	63
381790IG	3	6	3 x #12	0.795	20.19	615	915	67	70	75	91
380560IG	3	4	3 x #12	1.015	25.78	920	1370	87	92	99	126
381800IG	3	2	3 x #10	1.110	28.19	1385	2062	116	122	131	161
381810IG	3	1	3 x #10	1.290	32.77	1530	2278	137	143	153	202
359630IG	3	1/0	3 x #10	1.615	41.02	1825	2717	157	164	176	229
359640IG	3	2/0	3 x #10	1.685	42.80	2215	3298	180	188	201	254
359650IG	3	3/0	3 x #8	1.805	45.85	3135	4668	209	218	233	313
359660IG	3	4/0	3 x #8	1.925	48.90	3495	5201	242	252	270	354
359670IG	3	262	3 x #6	2.070	52.58	4215	6276	283	294	310	395
359680IG	3	313	3 x #6	2.235	56.77	4750	7073	309	321	345	442
386670IG	3	373	3 x #6	2.420	61.47	5435	8093	361	375	406	492
365690IG	3	444	3 x #6	2.615	66.42	6270	9330	396	411	445	608
381680IG	3	535	3 x #6	2.835	72.00	7522	11150	448	465	511	608
387920IG	3	646	3 x #4	2.935	74.55	8721	12977	492	510	525	678
14446.037000IG ²	3	777	3 x #4	3.225	81.92	10850	16145	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.