



Offshore and  
Onshore RIG  
Cables

# IEEE 1580 Type P MOR<sup>®</sup> Polyrad<sup>®</sup> XT-125 Armored & Sheathed

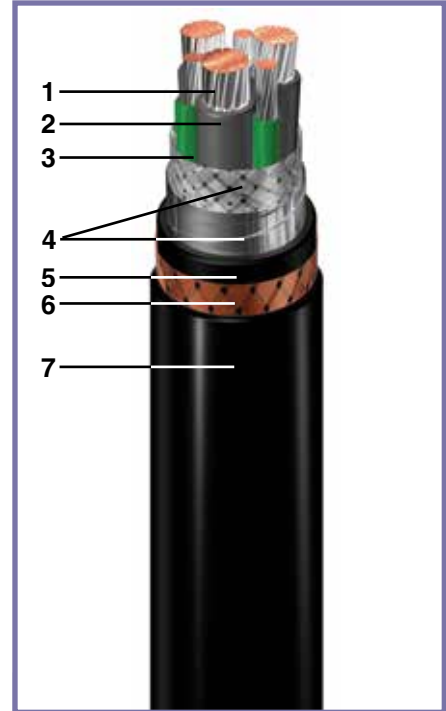


## Flexible Variable Frequency Drive Power Armored & Sheathed 2 kV/1000 V



### Product Construction:

- 1. Conductor:**
  - 8 AWG thru 777 kcmil soft annealed tinned copper flexible strand
- 2. Insulation:**
  - Polyrad<sup>®</sup> 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. Jacket:**
  - Black Irradiated Cross-linked Chlorinated Polyethylene (XL-CPE)
- 6. Armor:**
  - Bronze braid 88% minimum coverage
- 7. Sheath:**
  - Mud Oil-Resistant, Black Irradiated Cross-linked Chlorinated Polyethylene (XL-CPE)
- 8. Print:** (Including but not limited to)
  - MOR<sup>®</sup> POLYRAD<sup>®</sup> XT-125 VFD (UL) E85994 BR782B 110C 3C XXAWG+3GRNDS SHIELDED -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR (ETL) US 109229 IEEE 1580 -- IEC 1 KV 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 Hazardous Locations when installed in accordance with API-RP14F

### Features:

- Meets NEK 606 mud oil resistance requirements with 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

### Compliances:

#### Industry:

- API-RP14F
- CSA C22.2 No. 245 Type X110
- IEEE 1580-2010 Type P
- IEC 60092-350
- Mud oil-resistant
- UL 1309 Type X110
- UL Listed 110°C Marine Shipboard Cable

#### Flame Test:

- 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	# OF CORES	COND. SIZE (AWG)	GROUNDING COND. SIZE (AWG)	NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITIES <sup>1</sup> 45°C AMBIENT-SINGLE BANKED			
				INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	95°C	100°C	110°C	125°C
381820IG	3	8	3 x #14	1.170	29.72	226	336	903	1344	50	52	56	63
381830IG	3	6	3 x #12	1.245	31.62	343	510	1105	1644	67	70	75	91
381840IG	3	4	3 x #12	1.335	33.91	512	762	1400	2083	87	92	99	126
381850IG	3	2	3 x #10	1.450	36.83	778	1158	1803	2683	116	122	131	161
381860IG	3	1	3 x #10	1.705	43.31	1020	1518	2374	3533	137	143	153	202
359690IG	3	1/0	3 x #10	1.780	45.21	1295	1927	2748	4089	157	164	176	229
359700IG	3	2/0	3 x #10	1.920	48.77	1479	2201	3113	4632	180	188	201	254
359710IG	3	3/0	3 x #8	2.150	54.61	2076	3089	4072	6059	209	218	233	313
353040IG	3	4/0	3 x #8	2.215	56.26	2509	3733	4403	6552	242	252	270	354
359720IG	3	262	3 x #6	2.370	60.20	2866	4265	5264	7833	283	294	310	395
359730IG	3	313	3 x #6	2.485	63.12	3270	4866	5855	8712	309	321	345	442
359740IG	3	373	3 x #6	2.625	66.68	3814	5675	6624	9857	361	375	406	492
387870IG	3	444	3 x #6	2.800	71.12	4518	6723	7655	11391	396	411	454	594
14448.036600IG <sup>2</sup>	3	535	3 x #6	3.115	79.12	5385	8013	9239	13748	448	465	511	608
14448.036800IG <sup>2</sup>	3	646	3 x #4	3.300	83.82	6414	9544	10651	15849	492	510	525	678
14448.037000IG <sup>2</sup>	3	777	3 x #4	3.505	89.03	7815	11629	12286	18282	552	573	640	750

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

<sup>1</sup>Reference Ampacity section

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