



Offshore and  
Onshore RIG  
Cables

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



**Flexible Multi-Conductor Control  
Unarmored, 18 AWG & 16 AWG  
600 V/1000 V**



## Product Construction:

### 1. Conductor:

- 18 AWG and 16 AWG soft annealed tinned copper flexible strand

### 2. Insulation:

- Polyrad® XT-125 Irradiated Cross-linked Polyolefin (XLPO)
- Color Code: Per IEEE 1580 Table 22

### 3. Cable Core:

- Cabled with fillers when required
- Core binder tape when required

### 4. Sheath:

- Mud Oil-Resistant, Black Irradiated Cross-linked Chlorinated Polyethylene (XL-CPE)

### 5. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/C XXAWG TC-ER<sup>1</sup>-HL<sup>2</sup> RFHH-2 -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR DIR BUR 600/1000 V -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

<sup>1</sup> ER for 3 conductors or more

<sup>2</sup> HL for 3 conductors or more and O.D. of 1.00" or less

### 6. Option:

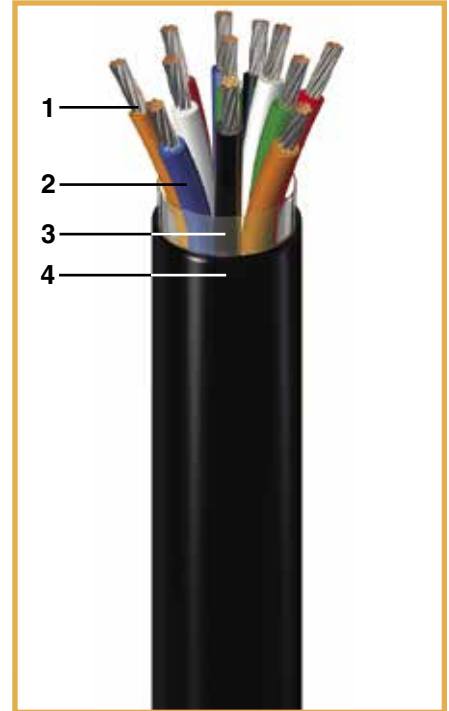
- Other color codes available upon request

## Applications:

- 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 when installed in accordance with API-RP14F or NEC Article 501
- TC-ER-HL is suitable for use in Class 1, Division 1 and Zone 1 environments when installed in accordance with API-RP14F or NEC Article 501

## Features:

- Meets NEK 606 mud oil resistance requirements with 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 for 3 conductors or more
- Permitted for Exposed Run, Hazardous Location "ER-HL" use in accordance with NEC for 3 conductors or more and O.D. of 1.00" or less
- 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
- UL 2225 Type TC-ER-HL

### 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)	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
661640	2	18	0.350	8.89	12	18	68	101	13	14	15	-
659140	3	18	0.365	9.27	18	27	73	109	11	12	13	-
659150	4	18	0.395	10.03	24	36	86	128	9	10	11	-
356120	5	18	0.425	10.80	30	45	103	153	9	10	11	-
309890	6	18	0.460	11.68	36	54	118	176	9	10	11	-
661650	7	18	0.460	11.68	42	62	125	186	7	8	9	-
356130	8	18	0.490	12.45	48	71	140	208	7	8	9	-
356140	10	18	0.570	14.48	60	89	174	259	5	6	7	-
309920	12	18	0.585	14.86	72	107	195	290	5	6	7	-
661670	16	18	0.645	16.38	96	143	244	363	5	6	7	-
306030	20	18	0.710	18.03	120	179	293	436	5	6	7	-
356150	24	18	0.785	19.94	144	214	347	516	4	5	6	-
356160	30	18	0.875	22.23	180	268	448	667	4	5	6	-
356170	37	18	0.935	23.75	222	330	534	795	4	5	6	-
356180	44	18	1.055	26.80	264	393	630	937	3	4	5	-
356190	60	18	1.155	29.34	359	534	820	1220	3	4	5	-
356200	91	18	1.385	35.18	545	811	1458	2170	3	4	5	-
664780	2	16	0.360	9.14	15	22	75	112	18	19	20	22
659170	3	16	0.380	9.65	22	33	82	122	15	16	17	18
659180	4	16	0.410	10.41	30	45	96	143	12	13	14	14
656090	5	16	0.445	11.30	37	55	116	173	12	13	14	14
673180	6	16	0.480	12.19	44	65	132	196	12	13	14	14
656060	7	16	0.480	12.19	52	77	142	211	10	11	12	13
661620	8	16	0.515	13.08	59	88	159	237	10	11	12	13
656070	10	16	0.595	15.11	74	110	196	292	7	8	9	9
673150	12	16	0.610	15.49	89	132	222	330	7	8	9	9
326090	16	16	0.675	17.15	118	176	280	417	7	8	9	9
656080	20	16	0.745	18.92	148	220	337	501	7	8	9	9
281050	24	16	0.825	20.96	177	263	400	595	6	7	8	8
356210	30	16	0.915	23.24	222	330	514	765	6	7	8	8
272130	37	16	0.985	25.02	274	408	613	912	5	6	7	7
303320	44	16	1.105	28.07	325	484	725	1079	5	6	7	6
659400	60	16	1.220	30.99	444	661	947	1409	5	6	7	6
307860	91	16	1.485	37.72	722	1074	1659	2469	4	5	6	5

## Flexible Multi-Conductor Low-Voltage Power, Unarmored, 16 AWG

358930	3	16	0.380	9.65	22	33	82	122	15	16	17	18
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Note: Color Code - Black, White and Green. Dimensions and weights are nominal; subject to industry tolerances.

<sup>1</sup>Reference Ampacity section