Offshore and Onshore RIG Cables

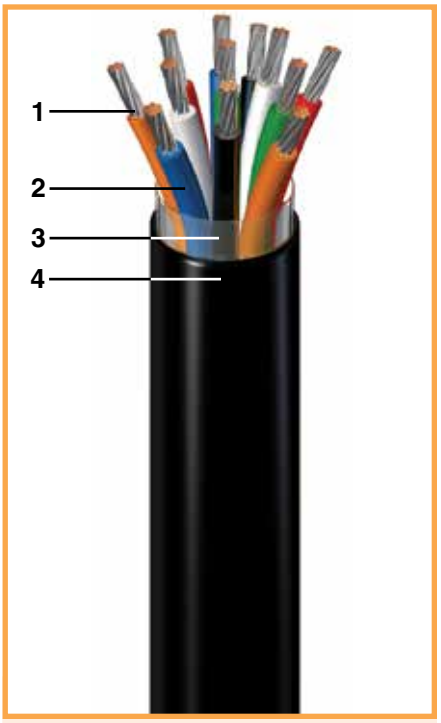
IEEE 1580 Type P
MOR® Polyrad® XT-125, Unarmored

Flexible Multi-Conductor Control Unarmored, 14 AWG, 12 AWG & 10 AWG
600 V/1000 V

Product Construction:

1. **Conductor:**
   - 14 AWG thru 10 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[1]-HL[2] XHHW -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR DIR BUR 600/1000 V 600 V RW90 XLPE TC -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

   [1] ER for 3 conductors or more
   [2] 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. 38 Type RW90
- CSA C22.2 No. 230 Type TC
- 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

General Cable

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600 V/1000 V

CATALOG NUMBER	# OF CORES	COND. SIZE (AWG)	NOMINAL CABLE DIAMETER		COPPER WEIGHT		NET WEIGHT		AMPACITIES[1] 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
648720	2	14	0.390	9.91	23	34	92	137	30	31	33	33
648730	3	14	0.410	10.41	35	52	107	159	24	25	27	28
646020	4	14	0.440	11.18	46	68	121	180	19	20	22	22
651320	5	14	0.480	12.19	57	85	147	219	19	20	22	22
673170	6	14	0.520	13.21	69	103	170	253	19	20	22	22
659390	7	14	0.520	13.21	80	119	183	272	17	18	19	20
387930	8	14	0.560	14.22	92	137	206	307	17	18	19	20
646910	10	14	0.650	16.51	115	171	256	381	12	13	14	14
672460	12	14	0.665	16.89	138	205	290	432	12	13	14	14
315780	14	14	0.700	17.78	161	240	331	493	12	13	14	14
673110	16	14	0.740	18.80	184	274	369	549	12	13	14	14
646920	20	14	0.815	20.70	230	342	447	665	12	13	14	14
672470	24	14	0.945	24.00	275	409	565	841	10	11	12	13
661690	30	14	1.005	25.53	344	512	679	1010	10	11	12	13
652780	37	14	1.075	27.31	425	632	816	1214	9	10	11	11
356220	44	14	1.205	30.61	505	751	965	1436	8	9	10	10
663200	60	14	1.390	35.31	689	1025	1270	1890	8	9	10	10
356230	91	14	1.740	42.20	1044	1553	2377	3537	7	8	9	8
652800	2	12	0.425	10.80	36	54	117	174	38	40	43	44
646030	3	12	0.445	11.30	53	79	138	205	30	31	33	37
646700	4	12	0.485	12.32	71	106	165	246	24	25	26	30
672730	5	12	0.525	13.34	89	132	194	289	24	25	26	30
356240	6	12	0.570	14.48	107	159	225	335	24	25	26	30
648710	7	12	0.570	14.48	125	186	245	365	21	22	23	26
356250	8	12	0.615	15.62	142	211	276	411	21	22	23	26
646890	10	12	0.720	18.29	178	265	343	510	15	16	17	19
684670	12	12	0.740	18.80	213	317	392	583	15	16	17	19
356260	16	12	0.820	20.83	285	424	502	747	15	16	17	19
646040	20	12	0.955	24.26	356	530	646	961	15	16	17	19
355640	24	12	1.055	26.80	427	635	763	1135	13	14	15	17
356270	30	12	1.115	28.32	534	795	927	1379	13	14	15	17
664710	37	12	1.205	30.61	658	979	1119	1665	12	13	14	15
356280	44	12	1.355	34.42	783	1165	1325	1972	10	11	12	13
356290	60	12	1.495	37.97	1067	1588	1755	2611	10	11	12	13
356300	91	12	1.975	50.17	1619	2409	2828	4208	8	9	10	11

Note: Dimensions and weights are nominal; subject to industry tolerances.
[1]Reference Ampacity section

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			INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km	95°C	100°C	110°C	125°C
652810	2	10	0.490	12.45	68	101	172	256	47	49	52	64
646050	3	10	0.515	13.08	101	150	211	314	39	41	44	49
646060	4	10	0.560	14.22	135	201	256	381	31	33	35	39
648740	5	10	0.610	15.49	169	251	315	469	31	33	35	39
356310	6	10	0.665	16.89	203	302	362	539	31	33	35	39
652760	7	10	0.665	16.89	236	351	399	594	27	29	31	34
326350	8	10	0.725	18.42	270	402	452	673	27	29	31	34
677940	10	10	0.860	21.84	338	503	594	884	19	21	22	25
677850	12	10	0.915	23.24	405	603	670	997	19	21	22	25