



Offshore and
Onshore RIG
Cables

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



Flexible Paired Signal Cable
Individually/Overall Shielded, Unarmored
600 V/1000 V



Product Construction:

1. Conductor:

- 20 AWG thru 14 AWG soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad® XT-125 Irradiated Cross-linked Polyolefin (XLPO)
- Color Code: Black and white with printed numbers

3. Individually Shielded Pairs:

- Aluminum/polymer tape and tinned copper drain wire

4. Cable Core:

- Core binder tape when required

5. Overall Shield:

- Overall aluminum/polymer tape with tinned copper drain wire

6. Sheath:

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

7. Print: (Including but not limited to)

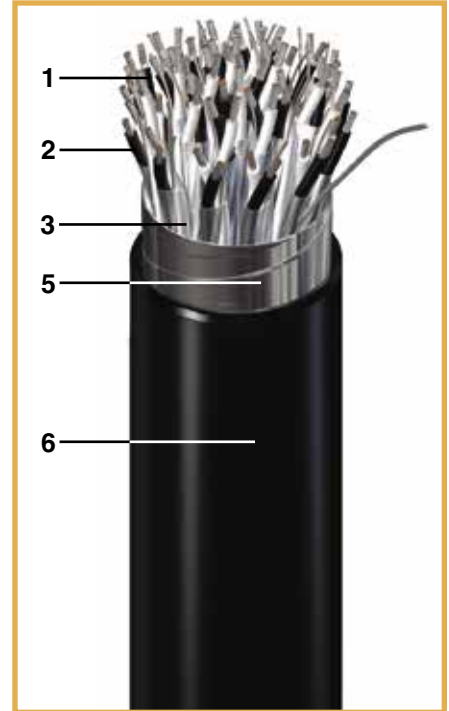
- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/PR XXAWG TC RFHH-2¹ OR XHHW² OR TC-ER-HL³ - (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V 600 V RW90 XLPE TC⁴ - IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

¹ TC RFHH-2 for 18 AWG and 16 AWG

² TC XHHW for 14 AWG

³ TC-ER-HL for 2 pairs or more, 18 AWG and larger and O.D. of 1.00" or less

⁴ CSA Listing - 600 V RW90 XLPE TC for 14 AWG



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 I, 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, 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

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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

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CATALOG NUMBER	# OF PAIRS	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
667750	1	20	0.340	8.64	10	15	60	89	9	10	11	-
357430	2	20	0.505	12.83	23	34	136	202	6	7	8	-
357440	3	20	0.530	13.46	33	49	148	220	6	7	8	-
357450	4	20	0.580	14.73	43	64	171	254	5	6	7	-
357460	5	20	0.635	16.13	53	79	205	305	4	5	6	-
357470	6	20	0.690	17.53	63	94	232	345	4	5	6	-
357480	7	20	0.690	17.53	74	110	247	368	4	5	6	-
357490	8	20	0.745	18.92	84	125	275	409	4	5	6	-
357500	10	20	0.915	23.24	104	155	360	536	4	5	6	-
357510	12	20	0.945	24.00	124	185	403	600	3	4	5	-
357520	16	20	1.045	26.54	165	246	500	744	3	4	5	-
357530	20	20	1.160	29.46	206	307	597	888	3	4	5	-
357540	24	20	1.285	32.64	246	366	703	1046	2	3	4	-
276150	1	18	0.355	9.02	16	24	70	104	13	14	15	-
357560	2	18	0.540	13.72	36	54	165	246	9	10	11	-
357570	3	18	0.570	14.48	52	77	183	272	9	10	11	-
357580	4	18	0.625	15.88	69	103	215	320	8	9	10	-
357590	5	18	0.680	17.27	85	126	254	378	5	6	7	-
357600	6	18	0.745	18.92	101	150	290	432	5	6	7	-
357610	7	18	0.745	18.92	117	174	310	461	5	6	7	-
357620	8	18	0.800	20.32	133	198	346	515	5	6	7	-
357630	10	18	0.985	25.02	165	246	448	667	5	6	7	-
357640	12	18	1.015	25.78	197	293	504	750	5	6	7	-
357650	16	18	1.125	28.58	262	390	632	940	4	5	6	-
357660	20	18	1.280	32.51	332	494	921	1370	4	5	6	-
357670	24	18	1.425	36.20	398	592	1104	1643	3	4	5	-

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

¹Reference 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
664750	1	16	0.370	9.40	20	30	78	116	18	19	20	25
357690	2	16	0.565	14.35	45	67	182	271	12	13	14	22
357700	3	16	0.600	15.24	65	97	205	305	12	13	14	18
357710	4	16	0.655	16.64	86	128	239	356	10	11	12	14
357720	5	16	0.720	18.29	106	158	291	433	7	8	9	14
357730	6	16	0.780	19.81	126	187	326	485	7	8	9	14
357740	7	16	0.780	19.81	146	217	351	522	7	8	9	13
357750	8	16	0.895	22.73	166	247	427	635	7	8	9	13
357760	10	16	1.045	26.54	206	307	507	754	7	8	9	9
357770	12	16	1.075	27.31	247	368	580	863	6	7	8	9
357780	16	16	1.190	30.23	327	487	706	1051	6	7	8	9
357790	20	16	1.325	33.66	408	607	847	1260	6	7	8	9
357800	24	16	1.475	37.47	488	726	1002	1491	5	6	7	8
304630	1	14	0.395	10.03	31	46	96	143	30	31	33	39
357820	2	14	0.620	15.75	71	106	231	344	19	20	21	33
357830	3	14	0.655	16.64	103	153	262	390	19	20	21	28
357840	4	14	0.735	18.67	134	199	310	461	17	18	19	22
357850	5	14	0.790	20.07	166	247	374	557	12	13	14	22
357860	6	14	0.900	22.86	197	293	461	686	12	13	14	22
357870	7	14	0.900	22.86	229	341	496	738	12	13	14	20
357880	8	14	0.985	25.02	260	387	557	829	12	13	14	20
357890	10	14	1.145	29.08	323	481	685	1019	12	13	14	14
357900	12	14	1.185	30.10	386	574	752	1119	11	12	13	14
357910	16	14	1.320	33.40	513	763	950	1414	9	10	11	14
357920	20	14	1.465	37.21	639	951	1147	1707	9	10	11	14
357930	24	14	1.640	41.66	765	1138	1359	2022	8	9	10	13

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