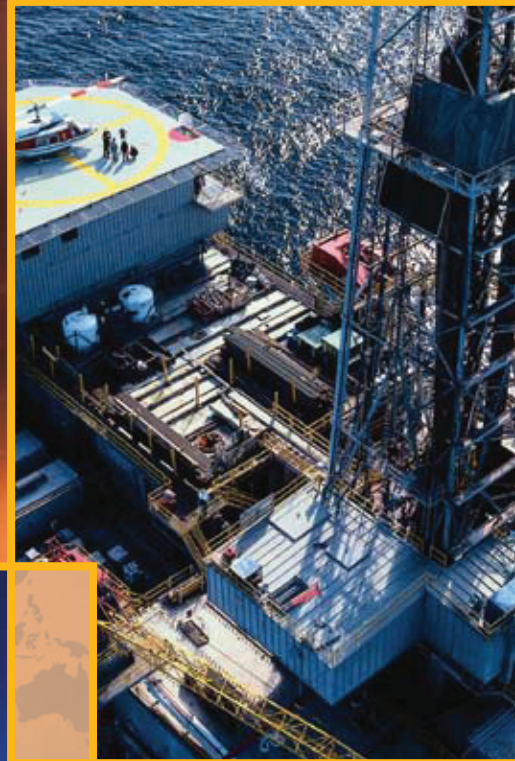


MOR® POLYRAD®
Flexible IEEE 1580 Type P
Offshore and Marine
Shipboard Cables



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Offshore and
Marine Shipboard
Cables

Introduction

General Cable is a **world leader** in cable manufacture and one of the world's largest suppliers to the Offshore and Marine Shipboard sector. General Cable's **extensive experience** in the offshore market translates into a clear understanding of international standards and specifications that the global market demands.

When **global demand** for oil and petroleum-based byproducts reached record levels in 2006, investment in new and deeper oilfields boomed. To assist our customers, who include some of the world's top oil companies, General Cable offers **a full range of international cables**, with emphasis on land and sea drilling, exploration and production. Diminishing global shallow water oil reserves are forcing exploration and production to move deeper and into **extreme environments**. With a legacy that spans over 100 years, our experience and record of innovation heighten our ability to develop solutions to the complex challenges deep-water applications pose.

Our company has **best-in-class research and development**, testing and production facilities in North America, Europe and Asia Pacific, employing more than 9,000 associates worldwide. The development of unique compounds, designed and tested to meet specific needs and stringent specifications, **differentiates General Cable** from all others.

General Cable's **breadth of product** is very extensive, including IEEE Type, IEC Type, and NEK 606 Type, low- and medium-voltage, and instrumentation cables, as well as offshore copper and fiber optic communications products.

IEEE Specification

General Cable's extensive range of products leads with one-of-a-kind solutions like **IEEE 1580 Type P** mud oil resistant, flexible signal, control and low-voltage **MOR® Polyrad®** cables for oil and gas drilling platforms, ships and FPSOs, as well as land-based drilling rig installations. To support production platform applications, **IEEE 1580** extreme crush- and impact-resistant, flexible **RIGTUFF™** marine shipboard cables were designed and engineered as a significantly more flexible, lightweight and easier-to-install alternative to Type MC-HL. General Cable has developed a complete line of **IEEE 1580 Type E MV-RIG™** cables, engineered to meet the industry demands for greater medium-voltage power generation and distribution in the offshore environment.

IEC Specification

To support the ongoing expansion of global demand, General Cable offers a full line of **IEC** specified **Exzhellent®** products, while continuing to develop innovative solutions for our evolving world. General Cable's global presence includes products like the **IEC 60092-350** series of instrumentation, low-voltage and medium-voltage cables with NEK 606 low-smoke and mud oil resistant capabilities, as well as **IEC 60331** circuit integrity constructions.

Communications

General Cable offers a full line of offshore and marine shipboard low-smoke, zero-halogen copper and fiber optic **Commodore™** communications cables. From standard RS serial data and popular fieldbus solutions to advanced copper and fiber data communications cables, General Cable has the communications cables you need for your regional and global offshore and marine shipboard applications.

Application-Specific Cable Assemblies

General Cable specializes in engineering distinctive high-end, precision breakout-type cable assemblies utilizing vertically integrated in-house capabilities. From application-specific cable design, engineering and manufacturing, to custom-engineered cable assemblies with fully documented and traceable test procedures in accordance with customer specifications, General Cable offers quantifiable quality cabling solutions.

Quality Assurance Guaranteed

Through an ongoing quality assurance initiative, General Cable ensures the quality of product design, manufacture, installation and expected service life, as well as environmentally sound products, processes and policies. Continuous research and development, combined with process control, quality audits and prolonged stringent testing, provide an ever-growing range of specialty materials and designs that meet offshore and marine shipboard industry approvals and standards.



MOR® Polyrad® Flexible IEEE 1580 Type P Offshore and Marine Shipboard Cables

Today's competitive offshore environment demands advanced cabling systems that meet requirements well into the future. General Cable's highly reliable and low-maintenance cables meet specific industry demands and specifications, ensuring the utmost performance. Nowhere is the need for robust, high-functioning cable designs greater than in the offshore environment. As a world-class manufacturer, General Cable understands the need to deliver cabling infrastructures that reduce downtime for improved productivity, as well as meeting increased needs for advanced exploration.

This catalog contains in-depth information on the most comprehensive line of General Cable's next generation of offshore and marine shipboard cables, designed to perform within the tough demands of today's ester-based mud oil drilling for increased safety and improved productivity. MOR® Polyrad® XT-125 product line is proven optimized for enhanced mud oil resistance, while continuing to meet the rigorous requirements of IEEE 1580 Type P with maximum flexibility and flame retardant characteristics, resistance to environmental conditions, and excellent mechanical properties.

From drilling rigs and semi-submersibles to offshore platforms, General Cable offers a full line of MOR® Polyrad® XT-125 Marine IEEE 1580 Type P listed cables. As a leader, General Cable has played a significant role in the development of irradiated cross-linked Chlorosulfonated Polyethylene (CP) extra-heavy-duty arctic-grade thermoset jacket with **enhanced mud oil resistance**, **maximum flexibility** and **abrasion resistance** to stand up to the severe stresses of installation and operation in hostile environments. Our insulation features a tough flame-retardant thermosetting Polyrad® XT-125 system cross-linked by irradiation, permitting higher ampacity ratings and reduced physical size. As a result, this insulation system has superior heat resistance and abrasion performance.

Our Chlorosulfonated Polyethylene (CP) based system has superior low temperature properties, passing cold impact at -40°C and cold bend at -55°C, while offering longer aging and ozone resistance beyond that of a neoprene-based system.

General Cable...highly engineered performance cables to meet any specifications.



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IEEE 1580 Type P

MOR® Polyrad® XT-125 Flexible Unarmored Cables

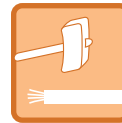
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FLAME-RETARDANT



FLEXIBLE



CRUSH- & IMPACT-RESISTANT



HEAVY-DUTY



OIL-RESISTANT



MUD OIL-RESISTANT



SUNLIGHT-RESISTANT

IEEE 1580 Type P Polyrad® XT-125, Unarmored



Flexible Single Conductor Power Unarmored

600V, 2kV/1000V & 2kV/1000V Heavy-Duty



Product Construction:

1. Conductor:

- 18 AWG thru 1111 kcmil soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad® XT-125 Irradiated Cross-Linked Polyolefin (XLPO) – Black
- Polyrad® XT-125 Heavy-Duty (HD) Irradiated Cross-Linked Polyolefin (XLPO) – 4/0 AWG and larger – Black

3. Print: (Including but not limited to)

- POLYRAD® XT-125 (UL) E85994 BR781 110C 1/C XXAWG 600V IAW 245/1309 TYPE X110 AND IEEE 1580-2001 TYPE P YEAR OF MFG DAY/MONTH/YEAR
- POLYRAD® XT-125 (UL) E85994 BR781 HD¹ 110C 1/C XXAWG (XX SQ MM) 2000V OR (CSA) 245/1309 FT4 -40C OR RW75 XLPE TC² SR 2KV OR (ETL) US 109229 IEEE 1580-2001 IEC 1KV 60332.3A DAY/MONTH/YEAR OF MFG SEQUENTIAL FOOTAGE MARK

¹ Heavy-Duty (HD) – 1/0 AWG and larger

² TC – 1/0 AWG and larger

4. Option:

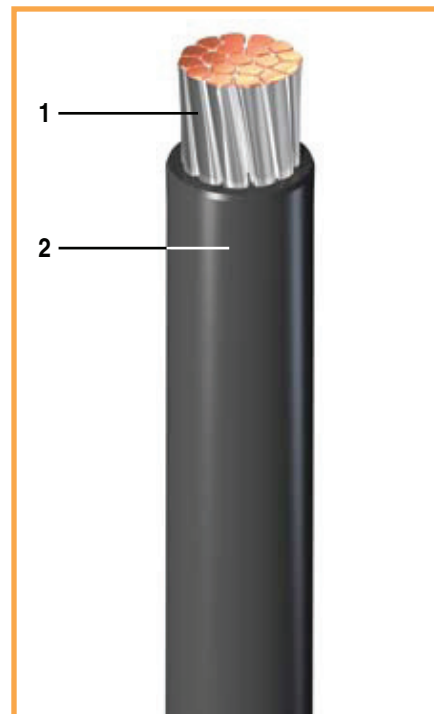
- Green stripe for use as equipment grounding

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

Features:

- 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 Type P
- IEC 60092-3
- 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

IEEE 1580 Type P Polyrad® XT-125, Unarmored



Flexible Single Conductor Power Unarmored

600V, 2kV/1000V & 2kV/1000V Heavy-Duty



600V

CATALOG NUMBER (XP)	# OF CORES	COND. (AWG) SIZE	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
387790	1	18	0.107	2.72	11	16	20	16	17	24
387800	1	16	0.114	2.90	13	19	23	24	25	35
387810	1	14	0.127	3.23	18	27	32	37	40	56
387820	1	12	0.146	3.71	27	40	38	45	48	67
387830	1	10	0.183	4.65	45	68	51	58	62	87

2kV/1000V

CATALOG NUMBER (XP)	# OF CORES	COND. (AWG) SIZE	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
388090	1	18	0.137	3.47	15	23	20	16	17	24
388100	1	16	0.144	3.66	17	25	23	24	25	35
388110	1	14	0.157	3.99	23	35	32	37	40	56
388120	1	12	0.176	4.47	32	48	38	45	48	67
388130	1	10	0.213	5.41	50	75	51	58	62	87
281190	1	8	0.257	6.53	80	119	70	72	77	90
295370	1	6	0.300	7.62	113	168	92	96	103	126
357270	1	5	0.355	9.02	160	238	104	106	117	153
281060	1	4	0.375	9.52	192	286	123	128	137	158
357280	1	3	0.400	10.16	212	315	140	146	156	195
281070	1	2	0.435	11.05	243	362	162	169	181	217
300550	1	1	0.518	13.16	370	551	180	194	208	281

2kV/1000V — 1 AWG and smaller constructions with Regular-Duty insulation thickness.

2kV/1000V Heavy Duty

CATALOG NUMBER (XP)	# OF CORES	COND. (AWG) SIZE	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
387300	1	1/0	0.665	16.64	460	684	217	227	243	319
387310	1	2/0	0.735	18.67	617	918	251	262	281	354
387320	1	3/0	0.795	20.19	732	1089	289	300	321	437
387330	1	4/0	0.840	21.34	816	1214	337	351	376	495
357290	1	262	0.870	22.10	962	1432	392	407	426	559
644010	1	313	0.940	23.88	1125	1674	439	455	491	617
361470	1	373	1.005	25.53	1354	2015	507	526	563	692
644030	1	444	1.085	27.56	1693	2519	567	588	630	772
644050	1	535	1.185	30.10	1994	2967	638	662	709	871
644070	1	646	1.295	32.89	2303	3427	693	715	766	979
644090	1	777	1.390	35.31	2870	4271	750	830	889	1101
274380	1	1111	1.580	40.13	3964	5899	972	1003	1073	1374

2kV/1000V Heavy-Duty — 1/0 AWG and larger constructions with Heavy-Duty (HD) insulation thickness.

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

¹Reference Ampacity section

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



**Flexible Single Conductor Power
Unarmored & Sheathed**
2kV/1000V & 2kV/1000V Heavy-Duty



Product Construction:

1. Conductor:

- 8 AWG thru 1111 kcmil soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad® XT-125 Irradiated Cross-Linked Polyolefin (XLPO) – Black
- Polyrad® XT-125 Heavy-Duty (HD) Irradiated Cross-Linked Polyolefin (XLPO) – 4/0 AWG and larger – Black

3. Sheath

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

4. Print: (Including but not limited to)

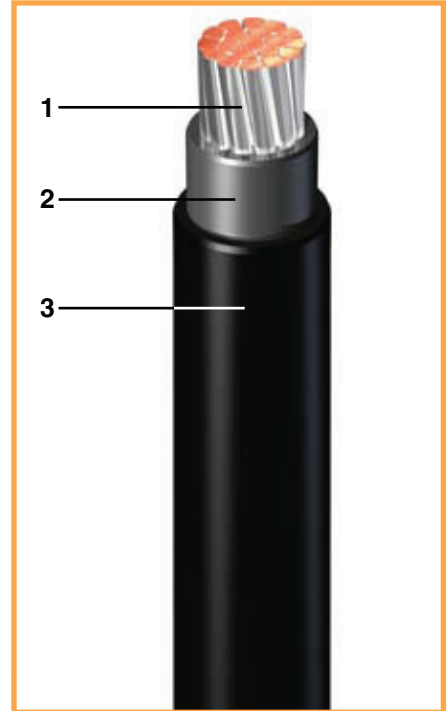
- MOR® POLYRAD® XT-125 (UL) E85994 BR781 110C 1/C XXAWG 2000V OR (CSA) 245/1309 FT4 -40C SR IEC 1KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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

Features:

- Meets NEK 606 mud oil resistance requirements including ester-based muds
- 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 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

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



**Flexible Single Conductor Power
Unarmored & Sheathed**
2kV/1000V & 2kV/1000V Heavy-Duty



CATALOG NUMBER (XP)	# OF CORES	COND. (AWG) SIZE	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
365470	1	8	0.380	9.65	103	153	70	72	77	90
365480	1	6	0.420	10.67	143	213	92	96	103	126
365490	1	5	0.485	12.32	198	295	104	106	117	153
365500	1	4	0.500	12.70	232	345	123	128	137	158
365510	1	3	0.540	13.72	267	397	140	146	156	195
365520	1	2	0.550	13.97	300	446	162	169	181	217
365530	1	1	0.640	16.26	432	643	180	194	208	281
365540	1	1/0	0.700	17.78	542	807	217	227	243	319
365550	1	2/0	0.720	18.29	563	838	251	262	281	354
365560	1	3/0	0.810	20.57	743	1106	289	300	321	437

2kV/1000V — 3/0 AWG and smaller constructions with Regular-Duty insulation thickness.

CATALOG NUMBER (XP)	# OF CORES	COND. (AWG) SIZE	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
365570	1	4/0	1.005	25.53	1012	1506	337	351	376	495
365580	1	262	1.040	26.42	1181	1758	392	407	426	559
365590	1	313	1.110	28.19	1383	2058	439	455	491	617
365600	1	373	1.185	30.10	1856	2862	507	526	563	692
365610	1	444	1.250	31.75	1894	2819	567	588	630	772
365620	1	535	1.345	34.16	2188	3256	638	662	709	871
365630	1	646	1.460	37.08	2624	3905	693	715	766	979
365640	1	777	1.540	39.12	3129	4657	750	830	889	1101
365650	1	1111	1.810	45.97	4270	6355	972	1003	1073	1374

2kV/1000V Heavy-Duty — 4/0 AWG and larger constructions with Heavy-Duty (HD) insulation thickness.

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

¹Reference Ampacity section

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



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



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 Chlorosulfonated Polyethylene

5. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/C XXAWG OR TC-ER¹ RFHH-2 OR (CSA) 245/1309 FT4 -40C SR 600/1000V OR IEC 1KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

¹ ER for 3 conductors or more

6. Option:

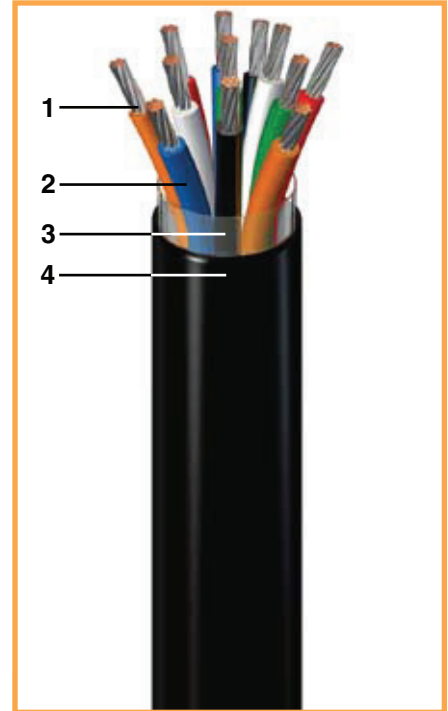
- Other color codes available upon request

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

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 for 3 conductors or more
- 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 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

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



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



CATALOG NUMBER (T-7874)	# OF CORES	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
661640	2	18	0.355	9.02	65	97	13	14	15	-
659140	3	18	0.373	9.46	80	119	11	12	13	-
659150	4	18	0.400	10.16	97	144	9	10	11	-
356120	5	18	0.432	10.97	115	171	9	10	11	-
309890	6	18	0.465	11.81	133	198	9	10	11	-
661650	7	18	0.465	11.81	146	217	7	8	9	-
356130	8	18	0.500	12.70	164	244	7	8	9	-
356140	10	18	0.575	14.60	203	302	5	6	7	-
309920	12	18	0.593	15.05	232	345	5	6	7	-
661670	16	18	0.652	16.56	293	436	5	6	7	-
306030	20	18	0.719	18.27	357	531	5	6	7	-
356150	24	18	0.792	20.12	410	610	4	5	6	-
356160	30	18	0.875	22.22	494	735	4	5	6	-
356170	37	18	0.945	24.00	646	961	4	5	6	-
356180	44	18	1.055	26.80	765	1138	3	4	5	-
356190	60	18	1.165	29.59	998	1485	3	4	5	-
356200	91	18	1.385	35.18	1458	2170	3	4	5	-
664780	2	16	0.367	9.32	69	103	18	19	20	22
659170	3	16	0.386	9.79	86	128	15	16	17	18
659180	4	16	0.415	10.53	105	156	12	13	14	14
656090	5	16	0.448	11.38	125	186	12	13	14	14
673180	6	16	0.483	12.27	145	216	12	13	14	14
656060	7	16	0.483	12.27	159	237	10	11	12	13
661620	8	16	0.519	13.18	179	266	10	11	12	13
656070	10	16	0.599	15.21	222	330	7	8	9	9
673150	12	16	0.618	15.69	254	378	7	8	9	9
326090	16	16	0.647	16.42	288	429	7	8	9	9
656080	20	16	0.751	19.07	393	585	7	8	9	9
281050	24	16	0.831	21.11	467	695	6	7	8	8
356210	30	16	0.924	23.47	473	704	6	7	8	8
272130	37	16	0.987	25.07	712	1060	5	6	7	7
303320	44	16	1.104	28.04	846	1259	5	6	7	6
659400	60	16	1.220	30.99	1155	1719	5	6	7	6
307860	91	16	1.485	37.72	1659	2469	4	5	6	5

Flexible Multi Conductor Low-Voltage Power, Unarmored, 16 AWG (T-75094)

358930	3	16	0.386	9.79	86	128	15	16	17	18
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Note: Color Code - Black, White and Green. Dimensions and weights are nominal; subject to industry tolerances.
¹Reference Ampacity section

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



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



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 Chlorosulfonated Polyethylene

5. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/C XXAWG OR TC-ER¹ XHHW OR (CSA) 245/1309 FT4 -40C SR 600/1000V OR 600V RW75 XLPE TC OR IEC 1KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

¹ ER for 3 conductors or more

6. Option:

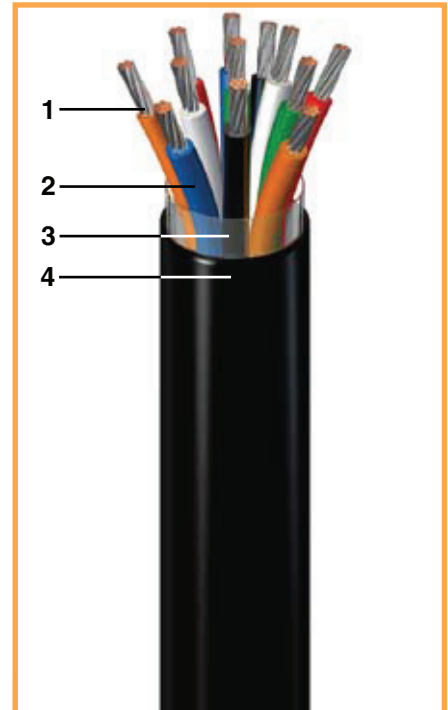
- Other color codes available upon request

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

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 for 3 conductors or more
- 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 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

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



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



CATALOG NUMBER (T-7874)	# OF CORES	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
648720	2	14	0.395	10.03	85	127	30	31	33	33
648730	3	14	0.415	10.54	107	159	24	25	27	28
646020	4	14	0.455	11.56	136	202	19	20	22	22
651320	5	14	0.490	12.45	161	240	19	20	22	22
673170	6	14	0.530	13.46	181	269	19	20	22	22
659390	7	14	0.530	13.46	208	310	17	18	19	20
387930	8	14	0.575	14.60	237	353	17	18	19	20
646910	10	14	0.660	16.76	290	432	12	13	14	14
672460	12	14	0.690	17.53	340	506	12	13	14	14
315780	14	14	0.670	17.02	352	524	12	13	14	14
673110	16	14	0.790	20.07	449	668	12	13	14	14
646920	20	14	0.825	20.95	530	789	12	13	14	14
672470	24	14	0.957	24.76	669	996	10	11	12	13
661690	30	14	1.040	26.42	814	1211	10	11	12	13
652780	37	14	1.105	28.07	964	1435	9	10	11	11
356220	44	14	1.255	31.88	1163	1731	8	9	10	10
663200	60	14	1.390	35.31	1529	2275	8	9	10	10
356230	91	14	1.740	44.20	2377	3537	7	8	9	8
652800	2	12	0.435	11.05	110	164	38	40	43	44
646030	3	12	0.460	11.68	143	213	30	31	33	37
646700	4	12	0.495	12.57	178	265	24	25	26	30
672730	5	12	0.550	13.97	220	327	24	25	26	30
356240	6	12	0.585	14.86	252	375	24	25	26	30
648710	7	12	0.585	14.86	281	418	21	22	23	26
356250	8	12	0.635	16.13	321	478	21	22	23	26
646890	10	12	0.735	18.67	397	591	15	16	17	19
356260	16	12	0.845	21.46	532	791	15	16	17	19
646040	20	12	0.985	25.02	777	1156	15	16	17	19
356640	24	12	1.090	27.69	792	1179	13	14	15	17
356270	30	12	1.150	29.21	986	1468	13	14	15	17
664710	37	12	1.240	31.50	1346	2003	12	13	14	15
356280	44	12	1.395	35.43	1395	2076	10	11	12	13
356290	60	12	1.570	39.88	2155	3207	10	11	12	13
356300	91	12	1.975	50.17	2828	4209	8	9	10	11

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

¹Reference Ampacity section

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



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



CATALOG NUMBER (T-7874)	# OF CORES	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
652810	2	10	0.495	12.57	154	229	47	49	52	64
646050	3	10	0.520	13.21	203	302	39	41	44	49
646060	4	10	0.570	14.48	260	387	31	33	35	39
648740	5	10	0.630	16.00	320	476	31	33	35	39
356310	6	10	0.675	17.14	371	552	31	33	35	39
652760	7	10	0.675	17.14	418	622	27	29	31	34
326350	8	10	0.730	18.54	474	705	27	29	31	34
677940	10	10	0.915	23.24	642	955	19	21	22	25
677850	12	10	0.945	24.00	743	1106	19	21	22	25

¹Reference Ampacity section

Flexible Multi Conductor Low-Voltage Power
Unarmored, 14 AWG, 12 AWG & 10 AWG
600V/1000V

CATALOG NUMBER (T-75094)	# OF CORES	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
272160	3	14	0.415	10.54	107	159	24	25	27	28
272150	3	12	0.460	11.68	143	213	30	31	33	37
354840	3	10	0.520	13.21	203	302	39	41	44	49

Note: Color Code - Black, White and Green. Dimensions and weight are nominal; subject to industry tolerances.

¹Reference Ampacity section

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



**Flexible Variable Frequency Drive Power
Unarmored**
2 kV/1000 V



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 covered 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 TC-ER RHW -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600 V RW75 XLPE TC (ETL) US 109229 IEEE 1580-2001 -- IEC 1 KV 60332.3A DAY/MONTH/YEAR SEQUENTIAL MARK

7. Options:

- Overall braid wire armor
- Larger sized covered ground wires
- Covered ground wires

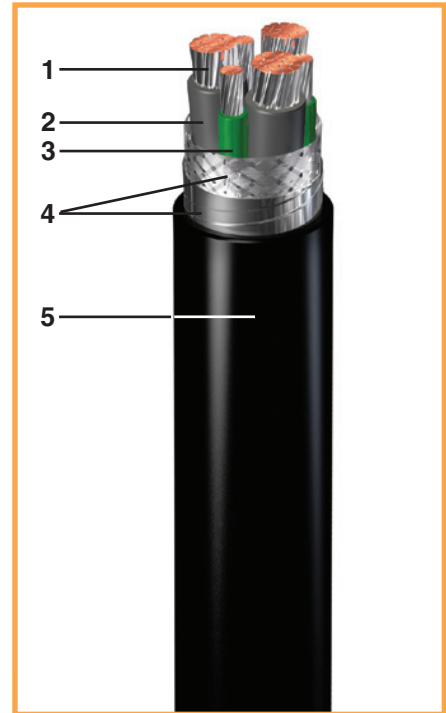
Applications:

- 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 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. 230 Type TC
- 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

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



Flexible Multi Conductor Power Unarmored 600V/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: 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 Chlorosulfonated Polyethylene

5. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/C XXAWG OR TC-ER¹ XHHW OR (CSA) 245/1309 FT4 -40C SR 600/1000V OR 600V RW75 XLPE TC OR IEC 1KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

¹ ER for 3 conductors or more

6. Option:

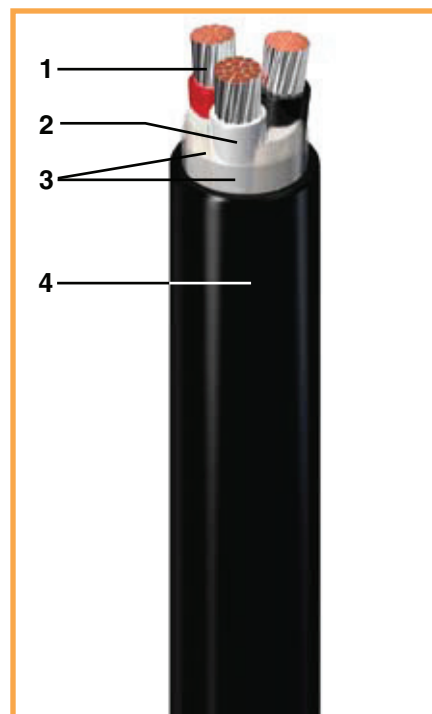
- Other color codes available upon request

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

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 for 3 conductors or more
- 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 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

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



Flexible Multi Conductor Power
Unarmored
600V/1000V



CATALOG NUMBER (T-7874)	# OF CORES	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
651810	2	8	0.594	15.09	240	357	62	64	69	77
667730	2	6	0.672	17.07	362	539	82	85	91	111
356320	2	5	0.790	20.07	455	677	96	101	109	147
652820	2	4	0.830	21.08	540	804	105	110	118	153
684820	2	3	0.935	23.75	625	930	126	132	141	180
661710	2	2	1.005	25.53	675	1004	143	149	160	196
356330	2	1	1.171	29.74	1045	1555	162	174	186	245
672720	2	1/0	1.269	32.23	1240	1845	191	199	213	278
356400	2	2/0	1.345	34.16	1545	2299	232	242	259	309
286410	2	3/0	1.559	39.60	1845	2746	255	265	284	382
661720	2	4/0	1.685	42.80	2330	3468	295	307	329	432
356340	2	262	1.795	45.59	2640	3929	345	358	378	481
356350	2	313	1.935	49.15	3156	4697	378	391	420	539
356360	2	444	2.280	57.91	3656	5440	486	504	556	669
356370	2	535	2.580	65.53	4503	6701	546	566	625	741
356380	2	646	2.874	73.00	5673	8442	603	625	649	944
356390	2	777	3.044	77.32	6681	9942	674	699	784	951
X648700	3	8	0.641	16.28	305	454	50	52	56	63
274820	3	6	0.725	18.42	433	644	67	70	75	91
652830	3	5	0.893	22.68	642	955	78	82	88	120
648670	3	4	0.936	23.77	730	1086	87	92	99	126
356410	3	3	0.990	25.15	840	1250	103	108	116	148
652840	3	2	1.066	27.07	935	1391	116	122	131	161
652970	3	1	1.245	31.62	1424	2119	137	143	153	202
659380	3	1/0	1.351	34.31	1682	2503	157	164	176	229
648660	3	2/0	1.473	37.41	2027	3017	180	188	201	254
652860	3	3/0	1.681	42.69	2670	3973	209	218	233	313
652870	3	4/0	1.825	46.36	3210	4777	242	252	270	354
293900	3	262	1.966	49.93	3660	5447	283	294	310	395
661740	3	313	2.117	53.77	4347	6469	309	321	345	442
652910	3	373	2.257	57.33	5010	7456	361	375	406	492
660410	3	444	2.460	62.48	6025	8966	396	411	454	549
656050	3	535	2.681	68.10	7195	10708	448	465	511	608
352510	3	646	2.914	74.01	8450	12575	492	510	525	678
14442.037000 ²	3	777	3.090	78.49	10325	15364	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.

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



Flexible Multi Conductor Power
Unarmored
600V/1000V



CATALOG NUMBER (T-7874)	# OF CORES	COND. (AWG) SIZE	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
658510	4	8	0.699	17.76	385	573	40	42	45	50
646070	4	6	0.793	20.14	555	826	54	56	60	73
652920	4	5	0.975	24.77	795	1183	62	66	70	96
648680	4	4	1.024	26.00	910	1354	70	74	79	101
667720	4	3	1.084	27.53	1075	1600	82	86	93	118
646080	4	2	1.168	29.67	1205	1793	93	98	105	129
652770	4	1	1.368	34.75	1830	2723	110	114	122	162
646090	4	1/0	1.486	37.75	2140	3185	126	131	141	183
646100	4	2/0	1.638	41.60	2565	3816	144	150	161	203
664920	4	3/0	1.877	47.69	3360	5000	167	174	186	250
274810	4	4/0	2.005	50.93	4020	5982	194	202	216	283
646110	4	262	2.162	54.91	4720	7024	226	235	248	316
356420	4	313	2.331	59.20	5520	8215	247	257	276	354
356430	4	373	2.487	63.17	6570	9777	289	300	325	394
296160	4	444	2.710	68.83	7975	11868	317	329	363	439
387880	4	535	2.951	74.96	9710	14450	358	372	409	486
387890	4	646	2.914	74.01	8450	12575	394	408	420	542
14442.047000 ²	4	777	3.430	87.12	13324	19826	442	458	512	600
672740	5	8	0.766	19.47	475	707	40	42	45	50
356440	5	6	0.912	23.16	770	1146	54	56	60	73
356450	5	5	1.071	27.20	935	1391	62	66	70	96
665900	5	4	1.125	28.57	1095	1630	70	74	79	101
356460	5	3	1.193	30.29	1290	1920	82	86	93	118
348300	5	2	1.287	32.69	1520	2262	93	98	105	129
356470	5	1	1.511	38.38	2350	3497	110	114	122	162
356480	5	1/0	1.703	43.27	2770	4122	126	131	141	183
356490	5	2/0	1.806	45.87	3320	4941	144	150	161	203
356500	5	3/0	2.071	52.60	4375	6511	167	174	186	250
356510	5	4/0	2.214	56.24	5010	7456	194	202	216	283
356520	5	262	2.404	61.06	5534	8235	226	235	248	316
356530	5	313	2.572	65.33	6456	9607	247	257	276	354
387900	5	373	2.705	68.71	7555	11242	289	300	325	394
387910	5	444	2.890	73.41	8888	13225	317	329	363	439
14442.056600 ²	5	535	3.190	81.03	11247	16736	358	372	420	486

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.

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



Flexible Variable Frequency Drive Power
Unarmored
2 kV/1000 V



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 covered 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 TC-ER RHW -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600 V RW75 XLPE TC (ETL) US 109229 IEEE 1580-2001 -- IEC 1 KV 60332.3A DAY/MONTH/YEAR SEQUENTIAL MARK

7. Options:

- Overall braid wire armor
- Larger sized covered ground wires
- Covered ground wires

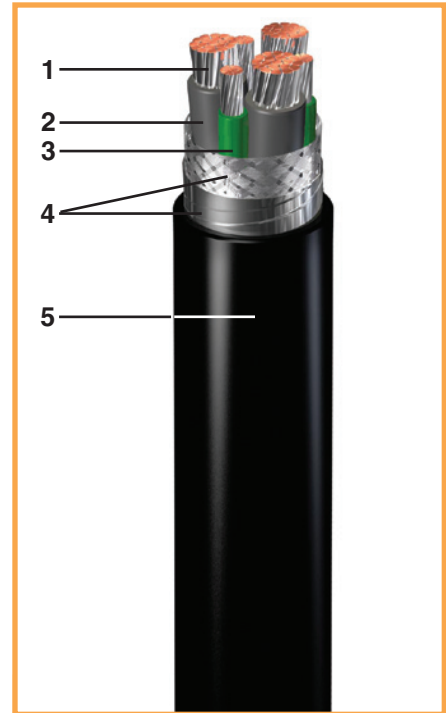
Applications:

- 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 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. 230 Type TC
- 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

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



February, 2009

Flexible Variable Frequency Drive Power
Unarmored
2kV/1000V



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
388840	3	646	3 x #2/0	2.990	75.95	9975	14843	492	510	525	678 ³
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.

³3C646kcmil + 3 x #2/0 AWG grounds, catalog number 388840, ampacity is 714 amps at 40°C ambient, single banked, at 125°C.

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



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



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 Chlorosulfonated Polyethylene

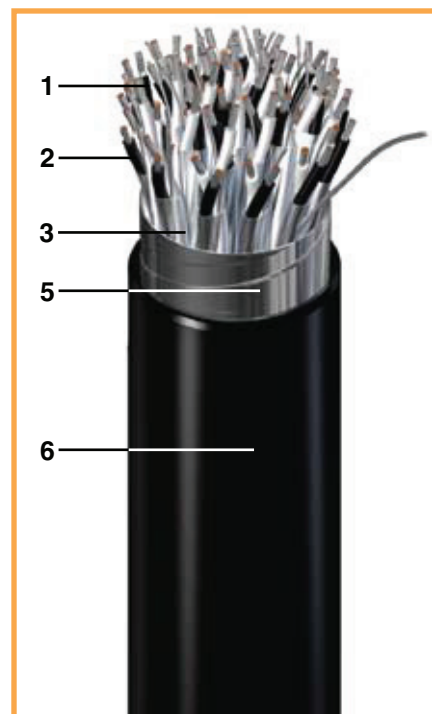
7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/PR XXAWG OR TC RFHH-2¹ OR XHHW² OR (CSA) 245/1309 FT4 -40C SR 600/1000V OR 600V RW 75 XLPE TC³ OR 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 and larger

³ CSA Listing - 600V RW75 XLPE TC for 14 AWG and larger



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

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

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



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



CATALOG NUMBER (T-75198)	# OF PAIRS	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
667750	1	20	0.342	8.69	63	94	9	10	11	-
357430	2	20	0.517	13.13	114	170	6	7	8	-
357440	3	20	0.545	13.84	142	211	6	7	8	-
357450	4	20	0.595	15.11	173	257	5	6	7	-
357460	5	20	0.660	16.70	220	327	4	5	6	-
357470	6	20	0.707	17.96	241	359	4	5	6	-
357480	7	20	0.707	17.96	262	390	4	5	6	-
357490	8	20	0.755	19.18	283	421	4	5	6	-
357500	10	20	0.938	23.83	325	484	4	5	6	-
357510	12	20	0.960	24.38	364	542	3	4	5	-
357520	16	20	1.065	27.05	507	754	3	4	5	-
357530	20	20	1.180	29.97	614	914	3	4	5	-
357540	24	20	1.310	33.27	714	1063	2	3	4	-
276150	1	18	0.362	9.19	77	115	13	14	15	-
357560	2	18	0.553	14.05	141	210	9	10	11	-
357570	3	18	0.586	14.88	179	266	9	10	11	-
357580	4	18	0.638	16.21	222	330	8	9	10	-
357590	5	18	0.699	17.75	266	396	5	6	7	-
357600	6	18	0.761	19.33	312	464	5	6	7	-
357610	7	18	0.761	19.33	344	512	5	6	7	-
357620	8	18	0.826	20.98	391	582	5	6	7	-
357630	10	18	1.010	25.65	525	781	5	6	7	-
357640	12	18	1.044	26.52	600	893	5	6	7	-
357650	16	18	1.145	29.08	750	1116	4	5	6	-
357660	20	18	1.275	32.39	921	1371	4	5	6	-
357670	24	18	1.425	36.20	1104	1643	3	4	5	-

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

¹Reference Ampacity section

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



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



CATALOG NUMBER (T-75198)	# OF PAIRS	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
664750	1	16	0.365	9.27	80	119	18	19	20	25
357690	2	16	0.565	9.27	149	222	12	13	14	22
357700	3	16	0.600	15.24	192	286	12	13	14	18
357710	4	16	0.650	16.51	237	353	10	11	12	14
357720	5	16	0.720	18.29	290	432	7	8	9	14
357730	6	16	0.780	19.81	336	500	7	8	9	14
357740	7	16	0.821	20.85	404	601	7	8	9	13
357750	8	16	0.890	22.61	459	683	7	8	9	13
357760	10	16	1.035	26.29	565	841	7	8	9	9
357770	12	16	1.070	27.18	650	967	6	7	8	9
357780	16	16	1.200	30.48	844	1256	6	7	8	9
357790	20	16	1.335	33.91	1035	1540	6	7	8	9
357800	24	16	1.480	37.59	1224	1822	5	6	7	8
304630	1	14	0.400	10.16	100	149	30	31	33	39
357820	2	14	0.625	15.88	192	286	19	20	21	33
357830	3	14	0.650	16.51	242	360	19	20	21	28
357840	4	14	0.735	18.67	321	478	17	18	19	22
357850	5	14	0.810	20.57	391	582	12	13	14	22
357860	6	14	0.900	22.86	473	704	12	13	14	22
357870	7	14	0.900	22.86	525	781	12	13	14	20
357880	8	14	0.985	25.02	582	866	12	13	14	20
357890	10	14	1.155	29.34	696	1036	12	13	14	14
357900	12	14	1.210	30.73	888	1322	11	12	13	14
357910	16	14	1.345	34.16	1035	1540	9	10	11	14
357920	20	14	1.505	38.23	1183	1761	9	10	11	14
357930	24	14	1.655	42.04	1331	1981	8	9	10	13

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

¹Reference Ampacity section

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



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



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: Black, white and red with printed numbers

3. Individually Shielded Triads:

- Aluminum/polymer tape and tinned copper drain wire

4. Cable Core:

- Core binder tape when required

5. Overall Shield:

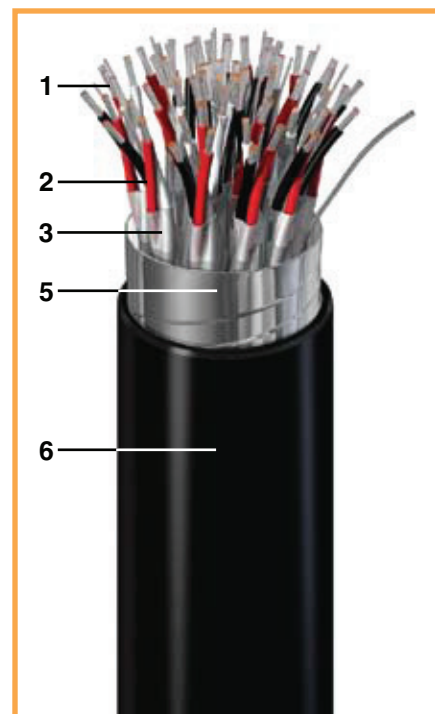
- Overall aluminum/polymer tape with tinned copper drain wire

6. Sheath:

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

7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782 110C XX/TRI XXAWG OR TC RFHH-2 OR (CSA) 245/1309 FT4 -40C SR 600/1000V OR 600V RW75 XLPE TC OR IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



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

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

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



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



CATALOG NUMBER (T-75198)	# OF TRIADS	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
358460	1	18	0.380	9.65	91	135	11	12	13	-
358470	2	18	0.610	15.31	175	260	8	9	10	-
358480	3	18	0.648	16.46	226	336	7	8	9	-
358490	4	18	0.707	17.96	282	420	5	6	7	-
358500	5	18	0.776	19.71	341	507	5	6	7	-
358510	6	18	0.848	21.54	400	595	5	6	7	-
358520	7	18	0.848	21.54	445	662	4	5	6	-
358530	8	18	0.935	23.75	490	729	4	5	6	-
358540	12	18	1.130	28.70	547	814	4	5	6	-
358550	16	18	1.255	31.88	891	1326	3	4	5	-
358560	1	16	0.395	10.03	102	152	15	16	17	25
358570	2	16	0.639	16.23	197	293	12	13	14	22
358580	3	16	0.679	17.25	258	384	11	12	13	18
358590	4	16	0.742	18.85	324	482	8	9	10	14
358600	5	16	0.815	20.70	392	583	8	9	10	14
358610	6	16	1.000	25.40	558	830	8	9	10	14
358620	7	16	1.000	25.40	611	909	7	8	9	13
358630	8	16	1.078	27.38	690	1027	7	8	9	13
358640	12	16	1.292	32.82	978	1455	6	7	8	9
358650	16	16	1.428	36.27	1241	1847	5	6	7	9

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

¹Reference Ampacity section

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Single Conductor Power Armored & Sheathed

2 kV/1000 V & 2 kV/1000 V Heavy-Duty



Product Construction:

1. Conductor:

- 1 AWG thru 1111 kcmil soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad® XT-125 Irradiated Cross-Linked Polyolefin (XLPO) – Black
- Polyrad® XT-125 Heavy-Duty (HD) Irradiated Cross-Linked Polyolefin (XLPO) – 4/0 AWG and larger – Black

3. Armor:

- Bronze braid 88% minimum coverage

4. Sheath:

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

5. Print: (Including but not limited to)

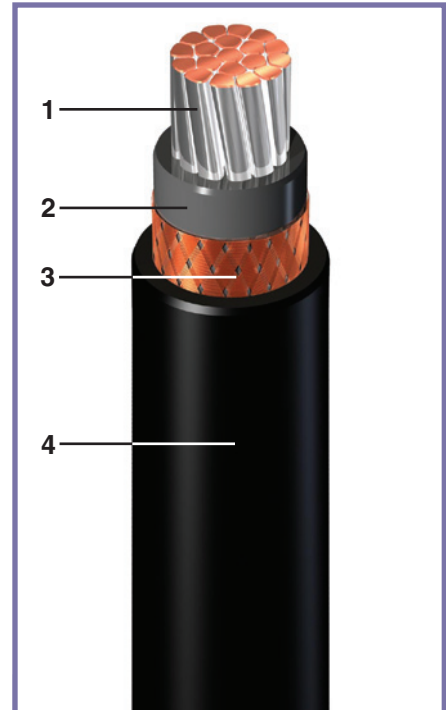
- MOR® POLYRAD® XT-125 (UL) E85994 BR781B 110C 1/C XXAWG 2000 V -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including ester-based muds
- 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 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



IEEE 1580 Type P

MOR® Polyrad® XT-125 Flexible Armored & Sheathed Cables

- Armored & Sheathed Flexible Single Conductor Power Cable 24, 25
- Armored & Sheathed Flexible Multi Conductor Control Cable – 18 AWG & 16 AWG 26, 27
- Armored & Sheathed Flexible Multi Conductor Control Cable – 14 AWG, 12 AWG & 10 AWG 28-30
- Armored & Sheathed Flexible Multi Conductor Power Cable – 2, 3, 4, & 5 Conductors 31-33
- Armored & Sheathed Flexible Variable Frequency Drive (VFD) Power Cable – 3 Conductor 34, 35
- Armored & Sheathed Flexible Paired Signal Cable, Individually/Overall Shielded – 20 AWG – 14 AWG 36-38
- Armored & Sheathed Flexible Triad Signal Cable, Individually/Overall Shielded – 18 AWG & 16 AWG 39, 40



FLAME-RETARDANT



FLEXIBLE



CRUSH- & IMPACT-RESISTANT



HEAVY-DUTY



OIL-RESISTANT



MUD OIL-RESISTANT



SUNLIGHT-RESISTANT

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



**Flexible Multi Conductor Control
Armored & Sheathed
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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

5. Armor:

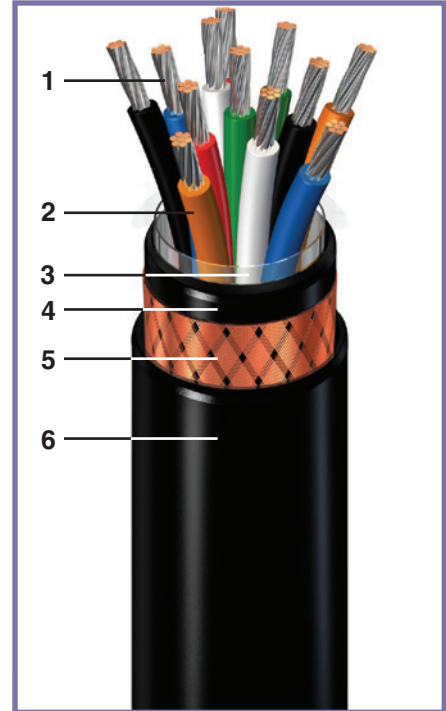
- Bronze braid 88% minimum coverage

6. Sheath:

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

7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/C XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Single Conductor Power Armored & Sheathed

2 kV/1000 V & 2 kV/1000 V Heavy-Duty



Product Construction:

1. Conductor:

- 1 AWG thru 1111 kcmil soft annealed tinned copper flexible strand

2. Insulation:

- Polyrad® XT-125 Irradiated Cross-Linked Polyolefin (XLPO) – Black
- Polyrad® XT-125 Heavy-Duty (HD) Irradiated Cross-Linked Polyolefin (XLPO) – 4/0 AWG and larger – Black

3. Armor:

- Bronze braid 88% minimum coverage

4. Sheath:

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

5. Print: (Including but not limited to)

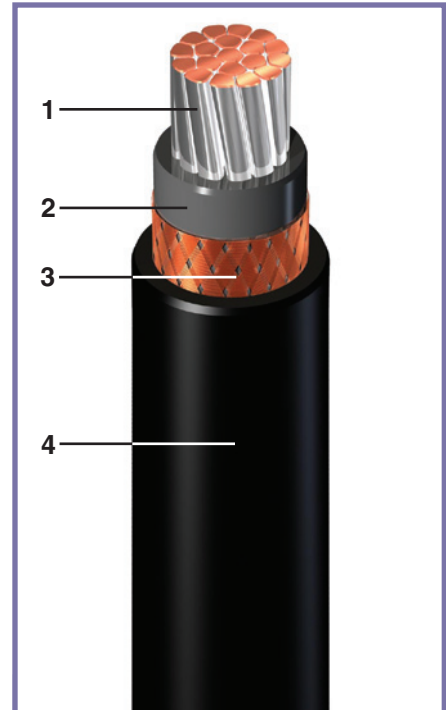
- MOR® POLYRAD® XT-125 (UL) E85994 BR781B 110C 1/C XXAWG 2000 V -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including ester-based muds
- 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Single Conductor Power Armored & Sheathed 2kV/1000V & 2kV/1000V Heavy-Duty



CATALOG NUMBER (T-75125)	# OF CORES	COND. (AWG) SIZE	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
357370	1	1	0.698	17.73	521	775	180	194	208	281
300140	1	1/0	0.747	18.97	600	893	217	227	243	319
357380	1	2/0	0.785	19.94	688	1024	251	262	281	354
326600	1	3/0	0.912	23.16	918	1366	289	300	321	437

2kV/1000V — 3/0 AWG and smaller constructions with Regular-Duty insulation thickness.

CATALOG NUMBER (T-75125)	# OF CORES	COND. (AWG) SIZE	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
281120	1	4/0	1.045	26.54	1195	1778	337	351	376	495
357390	1	262	1.090	27.69	1290	1920	392	407	426	559
357400	1	313	1.175	29.84	1488	2214	439	455	491	617
357410	1	373	1.240	31.50	1710	2545	507	526	563	692
281130	1	444	1.320	33.53	2115	3148	567	588	630	772
279330	1	535	1.460	37.08	2565	3817	638	662	709	871
279340	1	646	1.570	39.88	2950	4390	693	715	766	979
279350	1	777	1.685	42.80	3497	5204	750	830	889	1101
359080	1	1111	1.925	48.90	9651	6921	972	1003	1073	1374

2kV/1000V Heavy-Duty — 4/0 AWG and larger constructions with Heavy-Duty (HD) insulation thickness.

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

¹Reference Ampacity section

IEEE 1580 Type P MOR[®] Polyrad[®] XT-125 Armored & Sheathed



**Flexible Multi Conductor Control
Armored & Sheathed
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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

5. Armor:

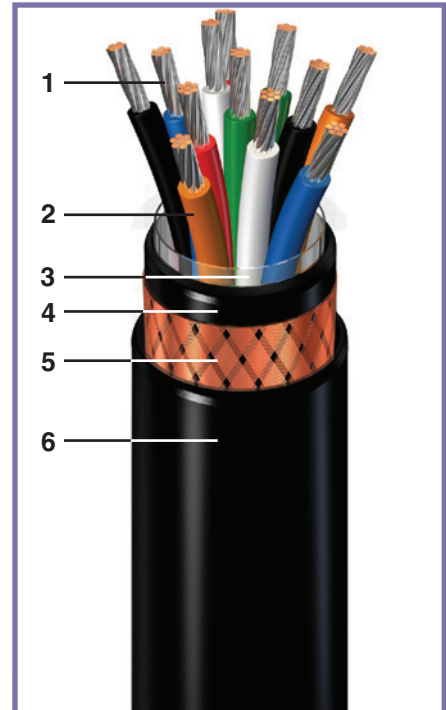
- Bronze braid 88% minimum coverage

6. Sheath:

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

7. Print: (Including but not limited to)

- MOR[®] POLYRAD[®] XT-125 (UL) E85994 BR782B 110C XX/C XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Multi Conductor Control
Armored & Sheathed
18 AWG & 16 AWG
600V/1000V



CATALOG NUMBER (T-75126)	# OF CORES	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
356540	2	18	0.535	13.59	203	302	13	14	15	-
321710	3	18	0.553	14.04	223	332	11	12	13	-
356550	4	18	0.585	14.86	253	377	9	10	11	-
356560	5	18	0.605	15.37	273	406	9	10	11	-
356570	6	18	0.645	16.38	307	457	9	10	11	-
356580	7	18	0.645	16.38	320	476	7	8	9	-
356590	8	18	0.680	17.27	367	546	7	8	9	-
356600	10	18	0.755	19.18	414	616	5	6	7	-
356610	12	18	0.765	19.43	441	656	5	6	7	-
356620	16	18	0.872	22.15	574	854	5	6	7	-
306040	20	18	0.939	23.85	664	988	5	6	7	-
356630	24	18	1.015	25.78	703	1046	4	5	6	-
356640	30	18	1.095	27.81	805	1198	4	5	6	-
356650	37	18	1.165	29.59	1040	1548	4	5	6	-
356660	44	18	1.275	32.38	1201	1787	3	4	5	-
356670	60	18	1.385	35.18	1476	2197	3	4	5	-
356680	91	18	1.605	40.77	2020	3006	3	4	5	-
356690	2	16	0.547	13.89	211	314	18	19	20	22
287750	3	16	0.566	14.37	234	348	15	16	17	18
326110	4	16	0.595	15.10	263	391	12	13	14	14
356700	5	16	0.628	15.96	293	436	12	13	14	14
313850	6	16	0.663	16.84	325	484	12	13	14	14
356710	7	16	0.663	16.84	339	504	10	11	12	13
287740	8	16	0.699	17.75	372	554	10	11	12	13
356720	10	16	0.779	19.79	441	656	7	8	9	9
326080	12	16	0.798	20.26	479	713	7	8	9	9
356730	16	16	0.867	22.01	566	842	7	8	9	9
315790	20	16	0.971	24.66	712	1060	7	8	9	9
281140	24	16	1.051	26.70	816	1214	6	7	8	8
356740	30	16	1.071	27.20	995	1481	6	7	8	8
356750	37	16	1.207	30.66	1121	1668	5	6	7	7
303330	44	16	1.315	33.40	1286	1914	5	6	7	6
281150	60	16	1.440	36.58	1603	2385	5	6	7	6
307870	91	16	1.765	44.83	2394	3563	4	5	6	5

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

¹Reference Ampacity section

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Multi Conductor Power Armored & Sheathed 600 V/1000 V



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: Per IEEE 1580 Table 22

3. Cable Core:

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

4. Sheath:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

5. Armor:

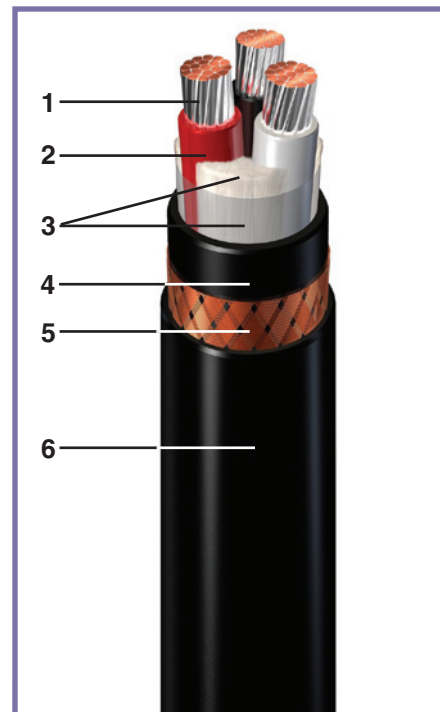
- Bronze braid 88% minimum coverage

6. Sheath:

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

7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/C XXAWG --
(CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 1 KV 60332.3A
IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR[®] Polyrad[®] XT-125 Armored & Sheathed



**Flexible Multi Conductor Control
Armored & Sheathed
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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

5. Armor:

- Bronze braid 88% minimum coverage

6. Sheath:

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

7. Print: (Including but not limited to)

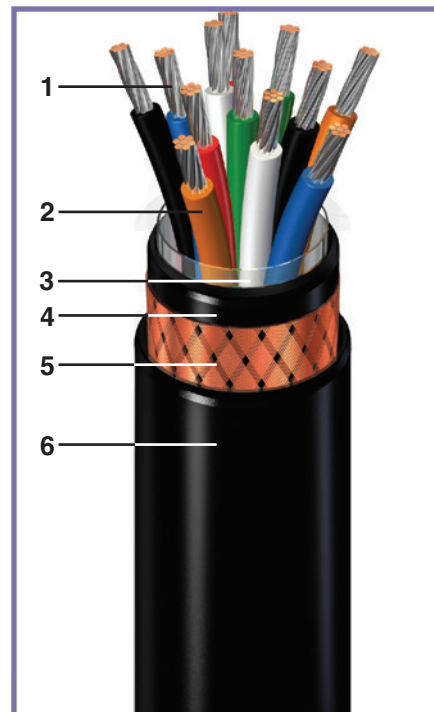
- MOR[®] POLYRAD[®] XT-125 (UL) E85994 BR782B 110C XX/C XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



**Flexible Multi Conductor Control
Armored & Sheathed
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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

5. Armor:

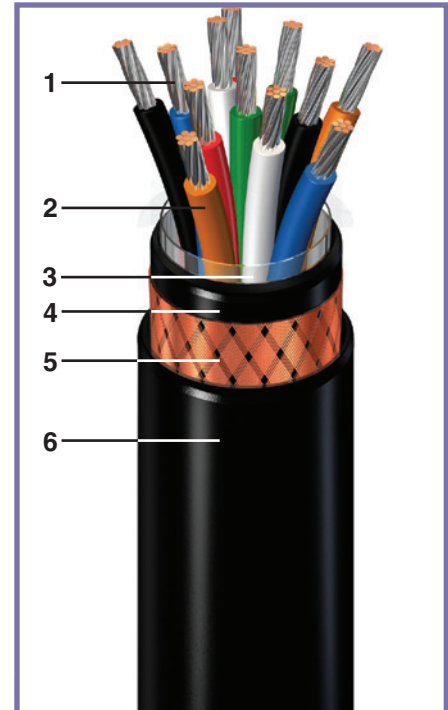
- Bronze braid 88% minimum coverage

6. Sheath:

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

7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/C XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 1 KV 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



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



Product Construction:

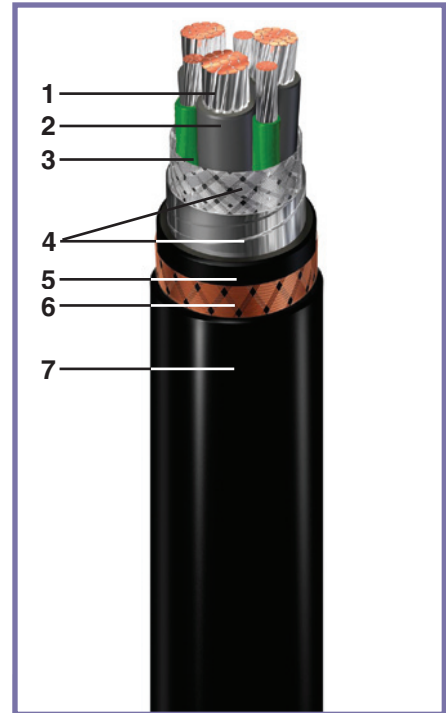
- 1. Conductor:**
 - 8 AWG thru 777 kcmil soft annealed tinned copper flexible strand
- 2. Insulation:**
 - Polyrad® XT-125 Irradiated Cross-Linked Polyolefin (XLPO)
 - Color Code: All black with printed numbers
- 3. Ground:**
 - 3 split green insulated flexible tinned copper conductors sized to UL 1277
- 4. Shield:**
 - Overall tinned copper braid with aluminum/polyester tape – 100% coverage for enhanced shield effectiveness required by VFD applications
- 5. Sheath:**
 - Black Irradiated Cross-Linked Chlorosulfonated Polyethylene
- 6. Armor:**
 - Bronze braid 88% minimum coverage
- 7. Sheath:**
 - Mud Oil-Resistant, Black Irradiated Cross-Linked Chlorosulfonated Polyethylene
- 8. Print:** (Including but not limited to)
 - MOR® POLYRAD® XT-125 VFD (UL) E85994 BR782B 110C 3C XXAWG+3GRNDS SHIELDED -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR (ETL) US 109229 IEEE 1580-2001 -- 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 including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Multi Conductor Control
Armored & Sheathed
14 AWG, 12 AWG & 10 AWG
600V/1000V



CATALOG NUMBER (T-75126)	# OF CORES	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
326120	2	14	0.575	14.60	235	350	30	31	33	33
279320	3	14	0.595	15.11	265	394	24	25	27	28
279310	4	14	0.635	16.13	306	455	19	20	22	22
281180	5	14	0.670	17.02	343	510	19	20	22	22
302600	6	14	0.710	18.03	383	570	19	20	22	22
281170	7	14	0.710	18.03	403	600	17	18	19	20
356760	8	14	0.755	19.18	448	667	17	18	19	20
279170	10	14	0.880	22.35	574	854	12	13	14	14
352480	12	14	0.910	23.11	635	945	12	13	14	14
315770	14	14	0.940	23.88	689	1025	12	13	14	14
356770	16	14	0.960	24.38	779	1159	12	13	14	14
279180	20	14	1.045	26.54	877	1305	12	13	14	14
315820	24	14	1.195	30.35	1074	1558	10	11	12	13
356780	30	14	1.260	32.00	1244	1851	10	11	12	13
279190	37	14	1.325	33.65	1419	2112	9	10	11	11
356790	44	14	1.475	37.46	1676	2494	8	9	10	10
356800	60	14	1.670	42.42	2221	3305	8	9	10	10
356810	91	14	2.020	51.31	3231	4808	7	8	9	8
281160	2	12	0.615	15.62	274	408	38	40	43	44
279200	3	12	0.640	16.26	316	470	30	31	33	37
279210	4	12	0.675	17.14	362	539	24	25	26	30
356820	5	12	0.730	18.54	422	628	24	25	26	30
356830	6	12	0.765	19.43	466	694	24	25	26	30
355760	7	12	0.765	19.43	495	737	21	22	23	26
356840	8	12	0.815	20.70	552	821	21	22	23	26
287710	10	12	0.955	24.26	709	1055	15	16	17	19
356850	16	12	1.005	26.80	1163	1731	15	16	17	19
281210	20	12	1.205	30.61	1185	1764	15	16	17	19
356860	24	12	1.270	32.27	1431	2129	13	14	15	17
356870	30	12	1.330	33.78	1632	2429	13	14	15	17
287730	37	12	1.460	37.08	1853	2758	12	13	14	15
356880	44	12	1.575	40.01	2066	3074	10	11	12	13
356890	60	12	1.850	46.99	2929	4359	10	11	12	13
356900	91	12	2.155	54.74	3562	5301	8	9	10	11

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

¹Reference Ampacity section

IEEE 1580 Type P MOR[®] Polyrad[®] XT-125 Armored & Sheathed



Flexible Paired Signal Cable Individually/Overall Shielded Armored & Sheathed 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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

7. Armor:

- Bronze braid 88% minimum coverage

8. Sheath:

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

9. Print: (Including but not limited to)

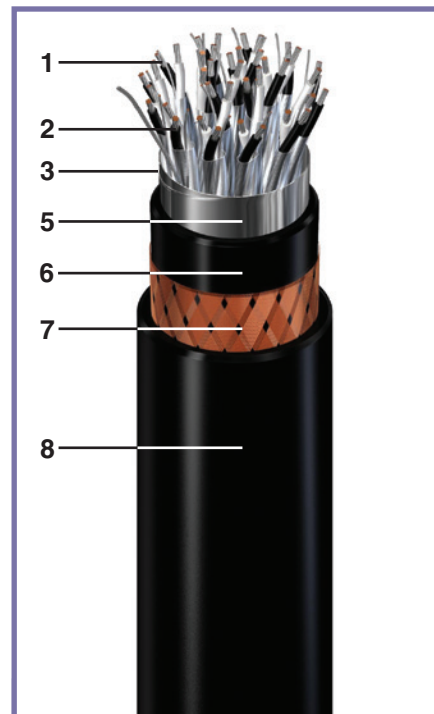
- MOR[®] POLYRAD[®] XT-125 (UL) E85994 BR782B 110C XX/PR XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR[®] Polyrad[®] XT-125 Armored & Sheathed



Flexible Multi Conductor Control
Armored & Sheathed
14 AWG, 12 AWG & 10 AWG
600V/1000V



CATALOG NUMBER (T-75126)	# OF CORES	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
326130	2	10	0.675	17.14	338	503	47	49	52	64
279220	3	10	0.700	17.78	369	549	39	41	44	49
279230	4	10	0.750	19.05	469	698	31	33	35	39
356910	5	10	0.810	20.57	550	819	31	33	35	39
356920	6	10	0.855	21.72	616	917	31	33	35	39
316620	7	10	0.855	21.72	662	985	27	29	31	34
356930	8	10	0.910	23.11	737	1097	27	29	31	34
356940	10	10	1.135	28.83	1024	1524	19	21	22	25
356950	12	10	1.165	29.59	1137	1692	19	21	22	25

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

¹Reference Ampacity section

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Multi Conductor Power Armored & Sheathed 600 V/1000 V



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: Per IEEE 1580 Table 22

3. Cable Core:

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

4. Sheath:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

5. Armor:

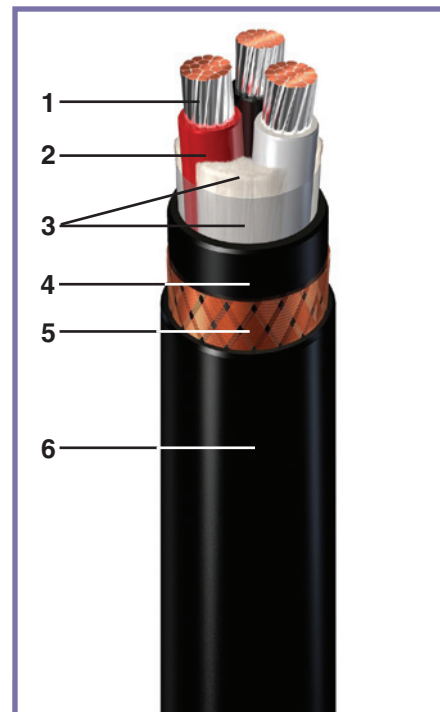
- Bronze braid 88% minimum coverage

6. Sheath:

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

7. Print: (Including but not limited to)

- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/C XXAWG --
(CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 1 KV 60332.3A
IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK



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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Triad Signal Cable Individually/Overall Shielded Armored & Sheathed 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: Black, white and red with printed numbers

3. Individually Shielded Triads:

- 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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

7. Armor:

- Bronze braid 88% minimum coverage

8. Sheath:

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

9. Print: (Including but not limited to)

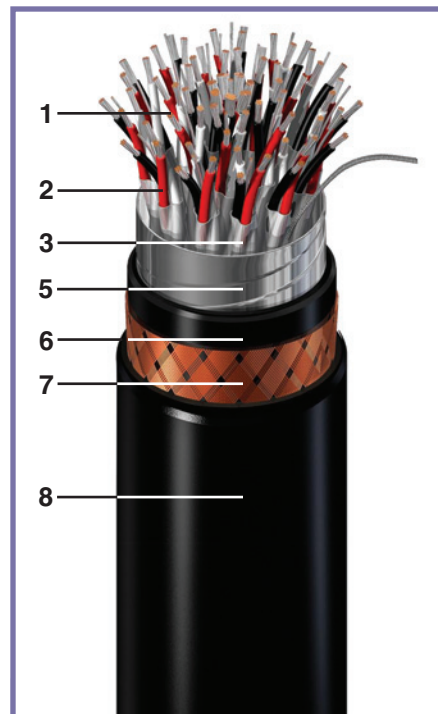
- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/TRI XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



**Flexible Multi Conductor Power
Armored & Sheathed**
600V/1000V



CATALOG NUMBER (T-75126)	# OF CORES	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
356960	2	8	0.774	19.66	457	680	62	64	69	77
326140	2	6	0.892	22.66	650	967	82	85	91	111
356970	2	5	1.010	25.65	789	1174	96	101	109	147
321820	2	4	1.050	26.67	889	1323	105	110	118	153
356980	2	3	1.155	29.34	1015	1511	126	132	141	180
326150	2	2	1.225	31.11	1091	1624	143	149	160	196
356990	2	1	1.391	35.33	1525	2270	162	174	186	245
357000	2	1/0	1.489	37.82	1758	2616	191	199	213	278
357010	2	2/0	1.565	39.75	2093	3115	232	242	259	309
286660	2	3/0	1.839	46.71	2615	3892	255	265	284	382
357020	2	4/0	1.945	49.40	3149	4686	295	307	329	432
357030	2	262	2.075	52.70	3519	5237	345	358	378	481
357040	2	313	2.215	56.26	4100	6102	378	391	420	539
387840	2	373	2.455	62.36	4635	6897	440	456	497	599
387850	2	444	2.650	67.31	4822	7175	486	504	556	669
387860	2	535	2.950	74.93	5804	8636	546	566	625	741
14444.026800 ²	2	646	3.245	82.42	7114	10586	603	625	649	944
14444.027000 ²	2	777	3.415	86.74	8205	12209	674	699	784	951
279240	3	8	0.861	21.87	581	865	50	52	56	63
279260	3	6	0.945	24.01	742	1104	67	70	75	91
357050	3	5	1.128	28.65	1037	1543	78	82	88	120
287700	3	4	1.171	29.74	1142	1670	87	92	99	126
357060	3	3	1.225	31.11	1247	1856	103	108	116	148
281220	3	2	1.301	33.04	1400	2083	116	122	131	161
293880	3	1	1.480	37.59	1961	2918	137	143	153	202
281230	3	1/0	1.646	41.80	2387	3552	157	164	176	229
318840	3	2/0	1.768	44.90	2791	4154	180	188	201	254
286670	3	3/0	2.006	50.95	3611	5229	209	218	233	313
326160	3	4/0	2.180	55.38	4310	6414	242	252	270	354
293910	3	262	2.321	58.94	4838	7200	283	294	310	395
286680	3	313	2.472	62.78	5610	8349	309	321	345	442
316610	3	373	2.612	66.35	6351	9452	361	375	406	492
357070	3	444	2.815	71.50	7480	11132	396	411	454	549
357080	3	535	3.036	77.11	8773	13056	448	465	511	608
14444.036800 ²	3	646	3.285	83.44	9915	14754	492	510	525	678
14444.037000 ²	3	777	3.460	87.88	11865	17655	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.

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Multi Conductor Power
Armored & Sheathed
600V/1000V



CATALOG NUMBER (T-75126)	# OF CORES	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
279250	4	8	0.919	23.35	684	1018	40	42	45	50
279270	4	6	1.013	25.73	890	1325	54	56	60	73
357090	4	5	1.210	30.74	1223	1820	62	66	70	96
291730	4	4	1.259	31.97	1358	2021	70	74	79	101
357100	4	3	1.319	33.50	1547	2302	82	86	93	118
302610	4	2	1.403	35.64	1711	2546	93	98	105	129
302620	4	1	1.663	42.24	2543	3784	110	114	122	162
355660	4	1/0	1.781	45.24	2910	4331	126	131	141	183
302630	4	2/0	1.963	49.86	3484	5185	144	150	161	203
302640	4	3/0	2.202	55.94	4403	6553	167	174	186	250
296180	4	4/0	2.360	59.95	5220	7768	194	202	216	283
357110	4	262	2.457	62.40	5816	8655	226	235	248	316
357120	4	313	2.626	66.69	6697	9966	247	257	276	354
357130	4	373	2.842	72.19	8040	11956	289	300	325	394
14444.046400 ²	4	444	3.080	78.23	9340	13898	317	329	363	439
14444.046600 ²	4	535	3.320	84.33	11192	16654	358	372	409	486
14444.046800 ²	4	646	3.460	87.88	11874	17669	394	408	420	542
14444.047000 ²	4	777	3.800	96.52	15032	22368	442	452	512	600
357140	5	8	0.986	25.05	800	1191	40	42	45	50
357150	5	6	1.132	28.75	1151	1713	54	56	60	73
357160	5	5	1.306	33.17	1402	2086	62	66	70	96
357170	5	4	1.360	34.54	1584	2357	70	74	79	101
357180	5	3	1.428	36.26	1806	2688	82	86	93	118
357190	5	2	1.522	38.66	2074	3087	93	98	105	129
357200	5	1	1.806	45.87	3132	4661	110	114	122	162
357210	5	1/0	1.998	50.76	3645	5424	126	131	141	183
357220	5	2/0	2.101	53.37	4244	6316	144	150	161	203
357230	5	3/0	2.396	60.86	5519	8213	167	174	186	250
357240	5	4/0	2.539	64.49	6228	9269	194	202	216	283
357250	5	262	2.758	70.05	6415	9546	226	235	248	316
357260	5	313	2.926	74.32	7399	11010	247	257	276	354
357130	5	373	3.085	78.36	8933	13292	289	300	325	394
14444.056400 ²	5	444	3.260	82.80	10347	15396	317	329	363	439
14444.056600 ²	5	535	3.560	90.42	12844	19112	358	372	420	486

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.

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



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



Product Construction:

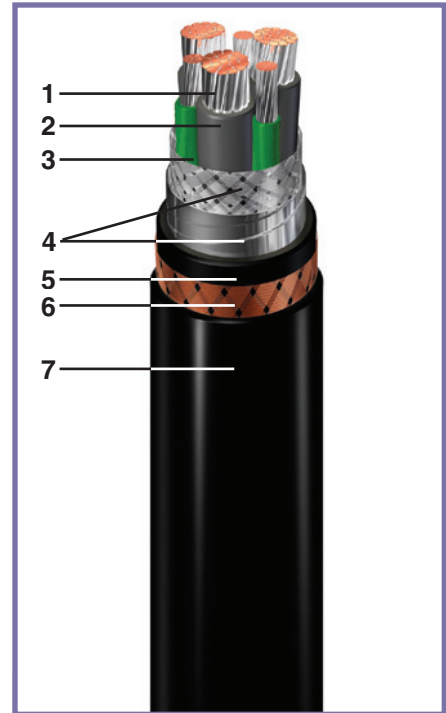
- 1. Conductor:**
 - 8 AWG thru 777 kcmil soft annealed tinned copper flexible strand
- 2. Insulation:**
 - Polyrad® XT-125 Irradiated Cross-Linked Polyolefin (XLPO)
 - Color Code: All black with printed numbers
- 3. Ground:**
 - 3 split green insulated flexible tinned copper conductors sized to UL 1277
- 4. Shield:**
 - Overall tinned copper braid with aluminum/polyester tape – 100% coverage for enhanced shield effectiveness required by VFD applications
- 5. Sheath:**
 - Black Irradiated Cross-Linked Chlorosulfonated Polyethylene
- 6. Armor:**
 - Bronze braid 88% minimum coverage
- 7. Sheath:**
 - Mud Oil-Resistant, Black Irradiated Cross-Linked Chlorosulfonated Polyethylene
- 8. Print:** (Including but not limited to)
 - MOR® POLYRAD® XT-125 VFD (UL) E85994 BR782B 110C 3C XXAWG+3GRNDS SHIELDED -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR (ETL) US 109229 IEEE 1580-2001 -- 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 including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



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



CATALOG NUMBER (VFD)	# OF CORES	COND. SIZE (AWG)	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
381820IG	3	8	3 x #14	0.960	24.38	665	990	50	52	56	63
381830IG	3	6	3 x #12	1.045	26.54	940	1400	67	70	75	91
381840IG	3	4	3 x #12	1.265	32.13	1325	1970	87	92	99	126
381850IG	3	2	3 x #10	1.405	35.69	1710	2545	116	122	131	161
381860IG	3	1	3 x #10	1.590	40.39	2170	3230	137	143	153	202
359690IG	3	1/0	3 x #10	1.965	49.91	2700	4018	157	164	176	229
359700IG	3	2/0	3 x #10	2.035	51.69	2930	4360	180	188	201	254
359710IG	3	3/0	3 x #8	2.150	54.61	3780	5625	209	218	233	313
353040IG	3	4/0	3 x #8	2.210	56.13	4330	6443	242	252	270	354
359720IG	3	262	3 x #6	2.420	61.47	4995	7433	283	294	310	395
359730IG	3	313	3 x #6	2.585	65.66	5650	8408	309	321	345	442
359740IG	3	373	3 x #6	2.770	70.36	6785	10097	361	375	406	492
387870IG	3	444	3 x #6	2.985	75.82	7590	11294	396	411	454	594
14448.036600IG ²	3	535	3 x #6	3.205	81.41	8950	13318	448	465	511	608
14448.036800IG ²	3	646	3 x #4	3.305	83.95	10190	15163	492	510	525	678
14448.037000IG ²	3	777	3 x #4	3.595	91.31	12465	18548	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.

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Paired Signal Cable Individually/Overall Shielded Armored & Sheathed 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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

7. Armor:

- Bronze braid 88% minimum coverage

8. Sheath:

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

9. Print: (Including but not limited to)

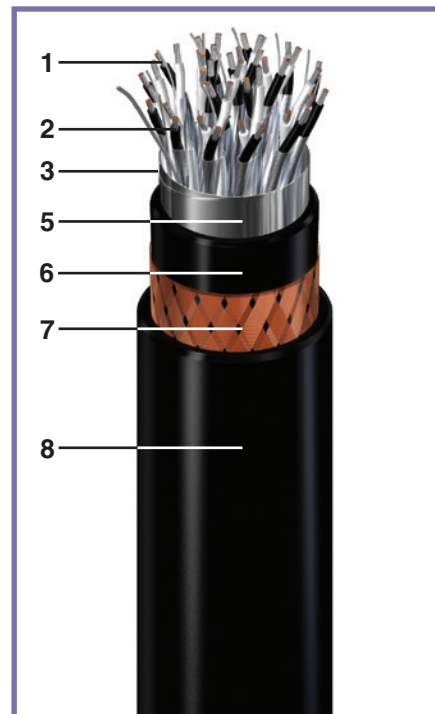
- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/PR XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Paired Signal Cable
Individually/Overall Shielded
Armored & Sheathed
600V/1000V



CATALOG NUMBER (T-75199)	# OF PAIRS	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
359290	1	20	0.522	13.26	195	290	9	10	11	-
357950	2	20	0.697	17.70	304	452	6	7	8	-
357960	3	20	0.725	18.42	341	507	6	7	8	-
357970	4	20	0.775	19.69	389	579	5	6	7	-
357980	5	20	0.840	21.34	450	670	4	5	6	-
357990	6	20	0.927	23.55	476	708	4	5	6	-
358000	7	20	0.927	23.55	498	741	4	5	6	-
358010	8	20	0.975	24.77	567	844	4	5	6	-
358020	10	20	1.158	29.41	645	960	4	5	6	-
358030	12	20	1.180	29.97	714	1063	3	4	5	-
358040	16	20	1.285	32.64	837	1246	3	4	5	-
358050	20	20	1.400	35.56	954	1420	3	4	5	-
358060	24	20	1.530	38.86	1065	1585	2	3	4	-
315750	1	18	0.542	13.77	215	320	13	14	15	-
358080	2	18	0.733	18.62	343	510	9	10	11	-
358090	3	18	0.766	19.46	392	583	9	10	11	-
358100	4	18	0.858	21.79	495	737	8	9	10	-
358110	5	18	0.919	23.34	563	838	5	6	7	-
358120	6	18	0.981	24.92	632	941	5	6	7	-
358130	7	18	0.981	24.92	665	990	5	6	7	-
358140	8	18	1.046	26.57	736	1095	5	6	7	-
358150	10	18	1.230	31.24	942	1402	5	6	7	-
358160	12	18	1.264	32.11	1029	1531	5	6	7	-
358170	16	18	1.365	34.67	1219	1814	4	5	6	-
358180	20	18	1.495	37.97	1440	2143	4	5	6	-
358190	24	18	1.645	41.78	1681	2502	3	4	5	-

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

¹Reference Ampacity section

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Paired Signal Cable
Individually/Overall Shielded
Armored & Sheathed
600V/1000V



CATALOG NUMBER (T-75199)	# OF PAIRS	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
279280	1	16	0.545	13.84	219	326	18	19	20	25
358210	2	16	0.745	18.92	355	528	12	13	14	22
358220	3	16	0.780	19.81	410	610	12	13	14	18
358230	4	16	0.870	22.10	515	766	10	11	12	14
358240	5	16	0.940	23.88	595	885	7	8	9	14
358250	6	16	1.000	25.40	662	985	7	8	9	14
358260	7	16	1.041	26.44	748	1113	7	8	9	13
358270	8	16	1.110	28.19	829	1234	7	8	9	13
358280	10	16	1.255	31.88	991	1475	7	8	9	9
358290	12	16	1.290	32.77	1089	1621	6	7	8	9
358300	16	16	1.420	36.07	1334	1985	6	7	8	9
358310	20	16	1.555	39.50	1577	2347	6	7	8	9
358320	24	16	1.760	44.70	1694	2521	5	6	7	8
352490	1	14	0.580	14.73	285	424	30	31	33	39
358340	2	14	0.845	21.46	447	665	19	20	21	33
358350	3	14	0.870	22.10	501	746	19	20	21	28
358360	4	14	0.955	24.26	596	887	17	18	19	22
358370	5	14	1.030	26.16	675	1005	12	13	14	22
358380	6	14	1.120	28.45	789	1174	12	13	14	22
358390	7	14	1.205	28.45	841	1251	12	13	14	20
358400	8	14	1.205	30.61	907	1350	12	13	14	20
358410	10	14	1.375	34.93	1074	1598	12	13	14	14
358420	12	14	1.430	36.32	1283	1909	11	12	13	14
358430	16	14	1.560	39.32	1465	2180	9	10	11	14
358440	20	14	1.725	43.82	1648	2452	9	10	11	14
358450	24	14	1.875	47.63	1831	2725	8	9	10	13

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

¹Reference Ampacity section

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Triad Signal Cable Individually/Overall Shielded Armored & Sheathed 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: Black, white and red with printed numbers

3. Individually Shielded Triads:

- 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:

- Black Irradiated Cross-Linked Chlorosulfonated Polyethylene

7. Armor:

- Bronze braid 88% minimum coverage

8. Sheath:

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

9. Print: (Including but not limited to)

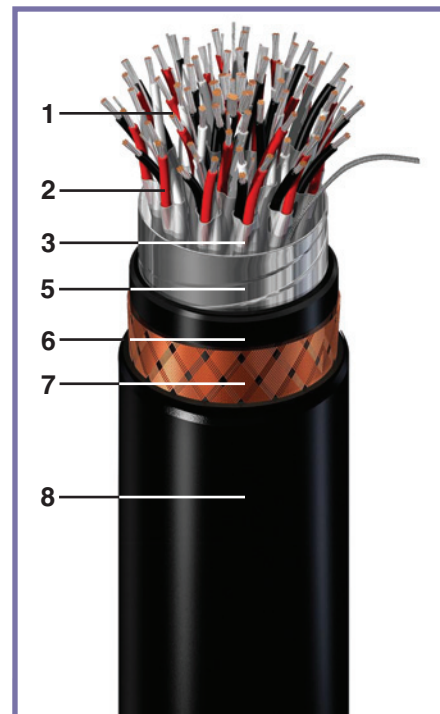
- MOR® POLYRAD® XT-125 (UL) E85994 BR782B 110C XX/TRI XXAWG -- (CSA) LL 9755 SPEC 245/1309 FT4 -40C SR 600/1000 V -- IEC 60332.3A IEEE 1580 TYPE P (ETL) 109229 YEAR OF MFG SEQUENTIAL FOOTAGE MARK

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 1 and Zone 1 Hazardous Locations when installed in accordance with API RP14F

Features:

- Meets NEK 606 mud oil resistance requirements including 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 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

IEEE 1580 Type P MOR® Polyrad® XT-125 Armored & Sheathed



Flexible Triad Signal Cable
Individually/Overall Shielded
Armored & Sheathed
600V/1000V



CATALOG NUMBER (T-75201)	# OF TRIADS	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
358660	1	18	0.560	14.22	235	350	11	12	13	-
358670	2	18	0.790	20.07	396	589	8	9	10	-
358680	3	18	0.828	21.03	460	685	7	8	9	-
358690	4	18	0.927	23.55	582	786	5	6	7	-
358700	5	18	0.996	25.30	667	993	5	6	7	-
358710	6	18	1.068	27.13	754	1122	5	6	7	-
358720	7	18	1.068	27.13	799	1189	4	5	6	-
358730	8	18	1.155	29.34	826	1229	4	5	6	-
358740	12	18	1.350	34.29	1187	1766	4	5	6	-
358750	16	18	1.475	37.47	1294	1926	3	4	5	-
358760	1	16	0.575	14.61	251	374	15	16	17	25
358770	2	16	0.819	20.80	428	637	12	13	14	22
358780	3	16	0.859	21.82	502	747	11	12	13	18
358790	4	16	0.962	24.43	637	948	8	9	10	14
358800	5	16	1.035	26.29	734	1092	8	9	10	14
358810	6	16	1.220	30.99	971	1445	8	9	10	14
358820	7	16	1.220	30.99	1024	1524	7	8	9	13
358830	8	16	1.298	32.97	1133	1686	7	8	9	13
358840	12	16	1.512	37.95	1503	2237	6	7	8	9
358850	16	16	1.648	41.86	1819	2707	5	6	7	9

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



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Standard Conductor Chart

APPROX. AREA (CMIL)	APPROX. SIZE (AWG)	COND. STRAND	TYPE OF STRANDING	DIAMETER (INCHES)	CAPACITANCE (PICO) (FARADS/FT)	A.C. RESISTANCE @ 20°C (OHMS/M)	A.C. IMPEDANCE @ 60 CYCLES (OHMS/M)	INDUCTANCE (MICRO H/M) X 10 ⁻⁵	WEIGHT (LBS/ M')
1900	18	19/30	CONC	.0475	23.9	5.46	6.22	10.88	6
2601	16	19/29	CONC	.054	24.6	3.99	4.82	10.61	8
3831	14	19/27	CONC	.067	31.6	2.71	3.05	9.549	12
6088	12	19/25	CONC	.086	37.5	1.70	1.92	9.019	20
10910	10	27/24	BUNCH	.120	47.6	.95	1.10	8.223	34
14950	8	37/24	CONC	.140	33.8	.69	.70	9.284	51
24640	6	61/24	CONC	.181	41.3	.42	.57	8.754	83
36760	5	91/24	ROPE	.242	52.2	.28	.33	8.223	119
42420	4	105/24	ROPE	.262	55.7	.24	.28	7.958	138
50500	3	126/24	ROPE	.285	59.7	.21	.23	7.692	167
60600	2	140/24	ROPE	.307	63.4	.17	.20	7.692	190
90900	1	224/24	ROPE	.380	66.2	.11	.14	7.692	302
111100	1/0	273/24	ROPE	.437	74.9	.09	.11	7.427	366
131300	2/0	323/24	ROPE	.458	77.4	.08	.10	7.427	420
181800	3/0	456/24	ROPE	.549	90.2	.06	.07	7.162	594
222200	4/0	551/24	ROPE	.611	66.6	.05	.06	7.692	721
262600	-	646/24	ROPE	.652	70.3	.04	.05	7.427	871
313100	-	777/24	ROPE	.720	76.4	.03	.05	7.427	1049
373700	-	925/24	ROPE	.795	83.0	.03	.04	7.162	1256
444400	-	1110/24	ROPE	.855	88.3	.02	.04	7.162	1506
535300	-	1332/24	ROPE	.925	84.5	.02	.04	7.162	1729
646400	-	1591/24	ROPE	1.035	92.9	.02	.03	7.162	2123
777700	-	1924/24	ROPE	1.120	99.4	.01	.03	6.897	2591
11111000	-	2745/24	ROPE	1.328	115.0	.01	.03	6.897	3400

Conversion factors:

(1) Micro H/M x10⁻⁵ X .3048 = Micro H/KMx10⁻⁵

(2) Ohms/M' X .304 = Ohms/Km



Standard Color Code Chart – IEEE 1580 Table 22

CONDUCTOR NUMBER	BASE COLOR	TRACER COLOR	TRACER COLOR
1	Black	-	-
2	White	-	-
3	Red	-	-
4	Green	-	-
5	Orange	-	-
6	Blue	-	-
7	White	Black	-
8	Red	Black	-
9	Green	Black	-
10	Orange	Black	-
11	Blue	Black	-
12	Black	White	-
13	Red	White	-
14	Green	White	-
15	Blue	White	-
16	Black	Red	-
17	White	Red	-
18	Orange	Red	-
19	Blue	Red	-
20	Red	Green	-
21	Orange	Green	-
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White
26	Orange	Black	White
27	Blue	Black	White
28	Black	Red	Green
29	White	Red	Green
30	Red	Black	Green
31	Green	Black	Orange
32	Orange	Black	Green
33	Blue	White	Orange
34	Black	White	Orange
35	White	Red	Orange
36	Orange	White	Blue
37	White	Red	Blue
38	Black	White	Green
39	White	Black	Green
40	Red	White	Green
41	Green	White	Blue
42	Orange	Red	Green
43	Blue	Red	Green
44	Black	White	Blue
45	White	Black	Blue
46	Red	White	Blue

CONDUCTOR NUMBER	BASE COLOR	TRACER COLOR	TRACER COLOR
47	Green	Orange	Red
48	Orange	Red	Blue
49	Blue	Red	Orange
50	Black	Orange	Red
51	White	Black	Orange
52	Red	Orange	Black
53	Green	Red	Blue
54	Orange	Black	Blue
55	Blue	Black	Orange
56	Black	Orange	Green
57	White	Orange	Green
58	Red	Orange	Green
59	Green	Black	Blue
60	Orange	Green	Blue
61	Blue	Green	Orange
62	Black	Red	Blue
63	White	Orange	Blue
64	Red	Black	Blue
65	Green	Orange	Blue
66	Orange	White	Red
67	Blue	White	Red
68	Black	Green	Blue
69	White	Green	Blue
70	Red	Green	Blue
71	Green	White	Red
72	Orange	Red	Black
73	Blue	Red	Black
74	Black	Orange	Blue
75	Red	Orange	Blue
76	Green	Red	Black
77	Orange	White	Green
78	Blue	White	Green
79	Red	White	Orange
80	Green	White	Orange
81	Blue	Black	Green
82	Orange	White	-
83	Green	Red	-
84	Black	Green	-
85	White	Green	-
86	Blue	Green	-
87	Black	Orange	-
88	White	Orange	-
89	Red	Orange	-
90	Green	Orange	-
91	Blue	Orange	-
92	Black	Blue	-

Note #1: Pair Color Code: Black and white with each conductor printed alpha-numerically for easy identification.

Note #2: Triad Color Code: Black, white and red with each conductor printed alpha-numerically for easy identification.

Note #3: Power Color Code: All black with printed numbers.



Ampacity – 95°C

45°C Ambient – Single Banked

AWG/kcmil	mm ²	CIRCULAR MILS	1/C	2/C	3/C
20	0.6	1022	11	9	8
18	1.0	1624	15	13	11
16	1.2	2583	22	18	15
14	2.1	4110	35	30	24
12	3.3	6530	44	38	30
10	5.3	10400	56	47	39
8	8.4	16500	70	62	50
6	13.3	26300	92	82	67
5	16.8	33100	104	96	78
4	21.1	41700	123	105	87
3	26.7	52600	140	126	103
2	33.6	66400	162	143	116
1	42.4	83700	180	162	137
1/0	53.5	106000	217	191	157
2/0	67.4	133000	251	232	180
3/0	85.0	168000	289	255	209
4/0	107.2	212000	337	295	242
262	133.1	262000	392	345	283
313	158.7	313100	439	378	309
373	189.4	373700	507	440	361
444	225.2	444400	567	486	396
535	271.3	535300	638	546	448
646	327.6	646400	693	603	492
777	394.2	777700	750	674	552
1111	563.1	1111000	972	814	658

- Notes: (1) The above current-carrying capacities are for marine installations with cables arranged in a single bank per hanger and are 85% of the ICEA calculated values (See Note 2). Double banking of distribution-type cables should be avoided. For those instances where cable must be double banked, the current-carrying capacities in the above table should be multiplied by 0.8.
- (2) The ICEA calculated the current capacities of these cables are based on cables installed in free air, i.e., at least one cable diameter spacing between adjacent cables. See IEEE Publication No. S-135-1962/ICEA and Publication No. P-46-426, 1962 Edition.
- (3) If ambient temperatures differ from 45°C, the values shown above should be multiplied by the following factors:
40°C - 1.04 50°C - .95 60°C - .85 70°C - .74

When the number of conductors in a cable exceeds 3, the maximum current-carrying capacity of each conductor is to be reduced according to the following table:

NUMBER OF CONDUCTORS	% OF 3 CONDUCTOR AMPACITY VALUES
4 through 6	80
7 through 9	70
10 through 20	50
21 through 30	45
31 through 40	40
41 through 60	35
61 and up	30



Ampacity – 100°C

45°C Ambient – Single Banked

AWG/kcmil	mm ²	CIRCULAR MILS	1/C	2/C	3/C
20	0.6	1022	12	10	9
18	1.0	1624	16	14	12
16	1.2	2583	23	19	16
14	2.1	4110	37	31	25
12	3.3	6530	45	40	31
10	5.3	10400	58	49	41
8	8.4	16500	72	64	52
6	13.3	26300	96	85	70
5	16.8	33100	109	101	82
4	21.1	41700	128	110	92
3	26.7	52600	146	132	108
2	33.6	66400	169	149	122
1	42.4	83700	194	174	143
1/0	53.5	106000	227	199	164
2/0	67.4	133000	262	242	188
3/0	85.0	168000	300	265	218
4/0	107.2	212000	351	307	252
262	133.1	262000	407	358	294
313	158.7	313100	455	391	321
373	189.4	373700	526	456	375
444	225.2	444400	588	504	411
535	271.3	535300	662	566	465
646	327.6	646400	715	625	510
777	394.2	777700	830	699	573
1111	563.1	1111000	1003	844	693

- Notes: (1) The above current-carrying capacities are for marine installations with cables arranged in a single bank per hanger and are 85% of the ICEA calculated values (See Note 2). Double banking of distribution-type cables should be avoided. For those instances where cable must be double banked, the current-carrying capacities in the above table should be multiplied by 0.8.
- (2) The ICEA calculated the current capacities of these cables are based on cables installed in free air, i.e., at least one cable diameter spacing between adjacent cables. See IEEE Publication No. S-135-1962/ICEA and Publication No. P-46-426, 1962 Edition.
- (3) If ambient temperatures differ from 45°C, the values shown above should be multiplied by the following factors:
40°C - 1.04 50°C - .95 60°C - .85 70°C - .74

When the number of conductors in a cable exceeds 3, the maximum current-carrying capacity of each conductor is to be reduced according to the following table:

NUMBER OF CONDUCTORS	% OF 3 CONDUCTOR AMPACITY VALUES
4 through 6	80
7 through 9	70
10 through 20	50
21 through 30	45
31 through 40	40
41 through 60	35
61 and up	30



Ampacity – 110°C

45°C Ambient – Single Banked

AWG/kcmil	mm ²	CIRCULAR MILS	1/C	2/C	3/C
20	0.6	1022	13	11	10
18	1.0	1624	17	15	13
16	1.2	2583	25	20	17
14	2.1	4110	40	33	27
12	3.3	6530	48	43	33
10	5.3	10400	62	52	44
8	8.4	16500	77	69	56
6	13.3	26300	103	91	75
5	16.8	33100	117	109	88
4	21.1	41700	137	118	99
3	26.7	52600	156	141	116
2	33.6	66400	181	160	131
1	42.4	83700	208	186	153
1/0	53.5	106000	243	213	176
2/0	67.4	133000	281	259	201
3/0	85.0	168000	321	284	233
4/0	107.2	212000	376	329	270
262	133.1	262000	426	378	310
313	158.7	313100	491	420	345
373	189.4	373700	563	497	406
444	225.2	444400	630	556	454
535	271.3	535300	709	625	511
646	327.6	646400	766	649	525
777	394.2	777700	889	784	640
1111	563.1	1111000	1006	-	-

- Notes: (1) The above current-carrying capacities are for marine installations with cables arranged in a single bank per hanger and are 85% of the ICEA calculated values (See Note 2). Double banking of distribution-type cables should be avoided. For those instances where cable must be double banked, the current-carrying capacities in the above table should be multiplied by 0.8.
- (2) The ICEA calculated the current capacities of these cables are based on cables installed in free air, i.e., at least one cable diameter spacing between adjacent cables. See IEEE Publication No. S-135-1962/ICEA and Publication No. P-46-426, 1962 Edition.
- (3) If ambient temperatures differ from 45°C, the values shown above should be multiplied by the following factors:
40°C - 1.04 50°C - .95 60°C - .85 70°C - .74

When the number of conductors in a cable exceeds 3, the maximum current-carrying capacity of each conductor is to be reduced according to the following table:

NUMBER OF CONDUCTORS	% OF 3 CONDUCTOR AMPACITY VALUES
4 through 6	80
7 through 9	70
10 through 20	50
21 through 30	45
31 through 40	40
41 through 60	35
61 and up	30



Ampacity – 125°C

45°C Ambient – Single Banked

AWG/kcmil	mm ²	CIRCULAR MILS	1/C	2/C	3/C
16	1.2	2583	25	22	18
14	2.1	4110	39	33	28
12	3.3	6530	49	44	37
10	5.3	10400	68	64	49
8	8.4	16500	90	77	63
6	13.3	26300	126	111	91
5	16.8	33100	153	147	120
4	21.1	41700	158	153	126
3	26.7	52600	195	180	148
2	33.6	66400	217	196	161
1	42.4	83700	281	245	202
1/0	53.5	106000	319	278	229
2/0	67.4	133000	354	309	254
3/0	85.0	168000	437	382	313
4/0	107.2	212000	495	432	354
262	133.1	262000	559	481	395
313	158.7	313100	617	539	442
373	189.4	373700	692	599	492
444	225.2	444400	772	669	549
535	271.3	535300	871	741	608
646	327.6	646400	979	-	-
777	394.2	777700	1101	-	-
1111	563.1	1111000	1374	-	-

- Notes: (1) The above current-carrying capacities are for marine installations with cables arranged in a single bank per hanger and are 85% of the ICEA calculated values (See Note 2). Double banking of distribution-type cables should be avoided. For those instances where cable must be double banked, the current-carrying capacities in the above table should be multiplied by 0.8.
- (2) The ICEA calculated the current capacities of these cables are based on cables installed in free air, i.e., at least one cable diameter spacing between adjacent cables. See IEEE Publication No. S-135-1962/ICEA and Publication No. P-46-426, 1962 Edition.
- (3) If ambient temperatures differ from 45°C, the values shown above should be multiplied by the following factors:
40°C - 1.04 50°C - .95 60°C - .85 70°C - .74

When the number of conductors in a cable exceeds 3, the maximum current-carrying capacity of each conductor is to be reduced according to the following table:

NUMBER OF CONDUCTORS	% OF 3 CONDUCTOR AMPACITY VALUES
4 through 6	80
7 through 9	70
10 through 20	50
21 through 30	45
31 through 40	40
41 through 60	35
61 and up	30



Approvals/Certifications

American Bureau of Shipping (ABS)

Certificate of Design Assessment:

03-HS406385A-PDA

03-HS406385B-PDA

03-HS406385C-PDA

03-HS406385D-PDA

03-HS406385E-PDA

Canadian Standards Association International (CSA)

Project Number: 1745099; File Number: LL-9755-101A

Project Number: 1486914

Det Norske Veritas (DNV)

Certificate Numbers:

E-6904, E-6905, E-6906, E-6907, E-6908, E-6909, E-6910, E-6911

Intertek Testing Services (ETL)

Reference Report Number: J97007096-001

Lloyd's Register of Shipping (LR)

Certificate Numbers: 98/60058(E2), 98/60059(E2), 98/60060(E2), 98/60061(E2)

Transport Canada Marine Safety

Certificate Number: AMS 8703-2

Underwriters Laboratories Inc. (UL)

Project Number: 01ME08208 (E85994)

File Numbers: E85994 & E57179

United States Coast Guard (USCG)



Offshore and
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Cables

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