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BOSTRIG MHV3-5 CABLE

Three Conductor Power (Type N Jacket)
5 kV (IEC 1.8/3 kV) Shielded - 100% or 133% Level
Unarmored



Application

Bostrig MHV3-5 three conductor 5,000 volt shielded cables are suitable for use in commercial marine applications, MODU's, and platforms where flame retardant cables having excellent physical and electrical properties are required. The cables have excellent resistance to oils, abrasion, petrochemical fluids, moisture, and sunlight. Cables are also available with either a fully insulated grounding conductor or an un-insulated grounding conductor evenly distributed in the interstices.

3/c - 5 kV (IEC 1.8/3 kV) Shielded - 100% or 133% Level ¹¹⁰

Cable Type	Conductor Size		Stranding	Insulation Wall Thickness		Jacket Wall Thickness		Nominal Cable Diameter		Approx. Weight	
	AWG/MCM	mm ²		Inches	mm	Inches	mm	Inches	mm	Lbs/Mft	kg/km
MHV3-5-8	8	7.57	37/24	.090	2.29	.080	2.03	1.300	33.02	850	1265
MHV3-5-6	6	12.5	61/24	.090	2.29	.085	2.16	1.430	36.32	1070	1592
MHV3-5-5	5	18.6	91/24	.090	2.29	.085	2.16	1.510	38.35	1260	1875
MHV3-5-4	4	21.5	105/24	.090	2.29	.090	2.29	1.580	40.13	1380	2054
MHV3-5-2	2	30.7	150/24	.090	2.29	.110	2.80	1.750	44.45	1730	2575
MHV3-5-1	1	46.0	225/24	.090	2.29	.110	2.80	1.880	47.75	2160	3214
MHV3-5-1/0	1/0	56.3	275/24	.090	2.29	.110	2.80	1.990	50.55	2450	3646
MHV3-5-2/0	2/0	66.5	325/24	.090	2.29	.110	2.80	2.030	51.56	2700	4018
MHV3-5-3/0	3/0	92.1	450/24	.095	2.40	.115	2.92	2.280	57.91	3500	5210
MHV3-5-4/0	4/0	112.6	550/24	.095	2.40	.120	3.05	2.400	60.96	4000	5953
MHV3-5-262	262	133.0	650/24	.095	2.40	.125	3.18	2.520	64.01	4500	6697
MHV3-5-313	313	158.6	775/24	.095	2.40	.130	3.30	2.720	69.09	5300	7887
MHV3-5-373	373	189.3	925/24	.095	2.40	.140	3.56	2.880	73.15	6100	9078
MHV3-5-444	444	225.1	1100/24	.095	2.40	.145	3.68	3.040	77.22	7000	10417
MHV3-5-535	535	271.2	1325/24	.095	2.40	.150	3.81	3.260	82.55	8050	11980
MHV3-5-646	646	327.5	1600/24	.103	2.60	.160	4.06	3.520	89.41	9600	14286
MHV3-5-777	777	393.8	1925/24	.103	2.60	.170	4.32	3.730	94.74	11200	16667
MHV3-5-1111	1111	562.8	2750/24	.110	2.80	.190	4.83	4.320	109.73	15600	23215

Marine & Offshore Product Specification J-125 IEC-IEEE-UL

Conductor

Soft annealed tinned copper.
Stranding as shown in table below.

Conductor Shield

Semi-conducting tape with extruded thermosetting semi-conducting EPR.

Insulation

Extruded thermosetting EPR, 90°C-Type E.
Thickness as shown in table below.

Insulation Shield

Extruded thermosetting semi-conducting XLPO.

Metallic Braid Shield

Tinned copper braided shield, 85% minimum coverage.

Jacket

A jacket of flame retardant, heavy duty arctic Neoprene is applied over the cable core.

Thickness as shown in table below.

Tests

Meets applicable test requirements in IEC 60502, IEEE 45-1998 & 1993 (draft), ICEA S-68-516, UL 1072, J-125, and flame test in IEC 60332-3, cat A, A/F.

Rating

Listed by a Nationally Recognized Testing Lab (ETL) in conformance to IEC 60502, UL 1072, ICEA S-68-516 and IEEE 1580-2001. Type approved by DNV, ABS and LRS.



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