

Type T/N Drilmar® 90 Power/Distribution Cable

Polyvinyl Chloride/Nylon Insulated, Drilling Rig and Marine Cable, 600/1000 V

CME[®]
wire and cable

A Viakable Company

Features

Maximum conductor operating temperature: 90 °C per IEEE, UL and CSA. Meets applicable ampacity ratings.

DRILMAR® T/N Insulation:

- Rated at 105 °C.
- UL dual listed as THHN/THWN.
- Chemical resistant, rated Gas and Oil Res II.
- Sunlight resistant for CT use, 1/0 AWG and larger.

DRILMAR® PVC Jacket:

- Rated at 90 °C.
- Abrasion resistant.
- Chemical resistant.
- Sunlight resistant.

Completed cable offers superior flame resistance meeting:

- VW-1 rated singles.
- 70,000 Btu Flame Tests IEEE 1202/FT4, IEEE 383, UL 1685, ICEA T-30-520.

Application

DRILMAR® 90 cables are specifically designed for the installation and use in marine environments, for use on offshore drilling rigs, aboard marine vessels and on fixed and floating offshore facilities. These cables are used for the distribution of power in circuits or may be used in lighting, communication and control in circuits rated for 600/1000 volts.

Standards

IEEE 1580

Recommended Practice for Marine Cable for Use on Shipboard and Fixed and Floating Platforms.

IEEE 45

Recommended Practice for Electrical Installations on Shipboard Cable.

UL 1309

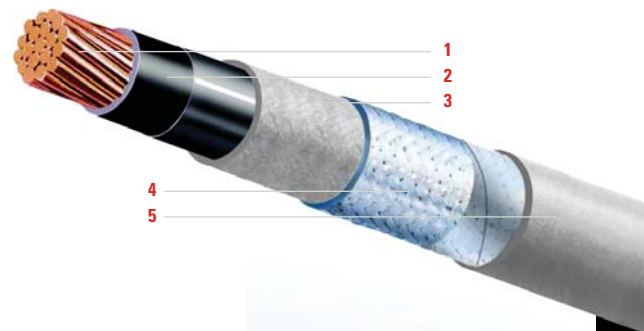
Marine Shipboard Cable.

CSA C22.2 No. 245

Marine Shipboard Cable.

Approvals

- UL and CSA, as Type T/N (IEEE).
- UL and CSA, as Type T/N 90.
- ABS, American Bureau of Shipping.
- LRS, Lloyd's Register of Shipping.
- United States Coast Guard.



Engineering Information

1. Conductor: Uncoated soft annealed stranded copper per IEEE, UL and CSA.

Sizes: 14 AWG up to 1000 kcmil.

2. Insulation: Flame retardant and sunlight resistant Polyvinyl Chloride and Polyamide (Nylon) covering per IEEE, UL and CSA.

3. Inner Jacket (optional): Flame retardant and sunlight resistant Polyvinyl Chloride (PVC), per IEEE, UL and CSA.
Note: Inner jacket is optional for single conductors, 18 AWG and larger, rated 2 kV or less when are intended for applications within equipment or an enclosure.

4. Armor (optional): Standard - Aluminum.

Optional - Bronze or Tinned Copper Braid per IEEE, UL and CSA.

5. Overall Sheath (optional): Flame retardant and sunlight resistant Polyvinyl Chloride (PVC), per IEEE, UL and CSA.
Note: Overall Jacket is optional for Bronze armor only, Tinned Copper armor and Aluminum armor require the use of outer jacket.

Technical Data

Type T/N Power/Distribution Cable, 600/1000 V

SNIU/A/B

Conductor		Unarmored					Armored				
Size AWG / kcmil	Strands	Nominal OD		Part Number	Net Weight		Nominal OD		Bronze		
		in	mm		lb/kft	kg/km	in	mm	Part Number	lb/kft	kg/km
14	19	0.20	5.1	DSTNT4-1	30	45	0.25	6.4	DSTNTB4-1	67	100
12	19	0.22	5.6	DSTNT6-1	40	60	0.27	6.9	DSTNTB6-1	80	119
10	19	0.25	6.4	DSTNT10-1	58	86	0.30	7.7	DSTNTB10-1	102	153
8	19	0.31	7.7	DSTNT16-1	87	130	0.36	9.0	DSTNTB16-1	141	210
6	19	0.34	8.7	DSTNT26-1	124	184	0.39	10.0	DSTNTB26-1	183	273
4	19	0.41	10.4	DSTNT41-1	188	280	0.46	11.7	DSTNTB41-1	259	385
2	19	0.47	12.0	DSTNT66-1	276	411	0.52	13.2	DSTNTB66-1	357	531
1	19	0.56	14.2	DSTNT83-1	364	541	0.61	15.4	DSTNTB83-1	458	682
1/0	19	0.60	15.2	DSTNT105-1	442	657	0.65	16.5	DSTNTB105-1	543	808
2/0	19	0.64	16.3	DSTNT133-1	538	801	0.69	17.6	DSTNTB133-1	646	962
3/0	19	0.69	17.6	DSTNT167-1	659	980	0.75	18.8	DSTNTB167-1	775	1153
4/0	19	0.75	19.0	DSTNT211-1	809	1204	0.80	20.3	DSTNTB211-1	935	1391
250	37	0.82	20.7	DSTNT250-1	950	1414	0.87	22.0	DSTNTB250-1	1086	1617
300	37	0.91	23.1	DSTNT300-1	1155	1718	0.96	24.4	DSTNTB300-1	1306	1944
350	37	0.96	24.3	DSTNT350-1	1325	1971	1.01	25.6	DSTNTB350-1	1484	2209
400	37	1.00	25.5	DSTNT400-1	1494	2223	1.05	26.8	DSTNTB400-1	1661	2471
500	37	1.09	27.6	DSTNT500-1	1829	2722	1.14	28.9	DSTNTB500-1	2010	2991
600	61	1.19	30.1	DSTNT600-1	2180	3245	1.24	31.4	DSTNTB600-1	2377	3537
750	61	1.29	32.7	DSTNT750-1	2678	3985	1.34	34.0	DSTNTB750-1	2891	4302
1000	61	1.44	36.5	DSTNT1000-1	3500	5209	1.49	37.8	DSTNTB1000-1	3737	5562

Conductor		Armored and Sheathed							
Size AWG / kcmil	Strands	Nominal OD		Aluminum			Bronze		
		in	mm	Part Number	Net Weight		Part Number	Net Weight	
					lb/kft	kg/km		lb/kft	kg/km
14	19	0.34	8.7	DSTNTAS4-1	68	102	DSTNTBS4-1	94	140
12	19	0.36	9.1	DSTNTAS6-1	81	121	DSTNTBS6-1	109	162
10	19	0.39	10.0	DSTNTAS10-1	103	154	DSTNTBS10-1	134	200
8	19	0.45	11.3	DSTNTAS16-1	140	208	DSTNTBS16-1	177	264
6	19	0.48	12.2	DSTNTAS26-1	182	270	DSTNTBS26-1	223	332
4	19	0.58	14.8	DSTNTAS41-1	273	406	DSTNTBS41-1	322	479
2	19	0.64	16.3	DSTNTAS66-1	371	552	DSTNTBS66-1	427	635
1	19	0.73	18.5	DSTNTAS83-1	474	705	DSTNTBS83-1	539	802
1/0	19	0.77	19.5	DSTNTAS105-1	558	831	DSTNTBS105-1	628	935
2/0	19	0.81	20.6	DSTNTAS133-1	662	986	DSTNTBS133-1	737	1097
3/0	19	0.90	22.9	DSTNTAS167-1	827	1231	DSTNTBS167-1	908	1351
4/0	19	0.96	24.3	DSTNTAS211-1	989	1472	DSTNTBS211-1	1076	1602
250	37	1.03	26.1	DSTNTAS250-1	1144	1703	DSTNTBS250-1	1239	1844
300	37	1.12	28.4	DSTNTAS300-1	1369	2037	DSTNTBS300-1	1474	2193
350	37	1.17	29.7	DSTNTAS350-1	1549	2305	DSTNTBS350-1	1660	2470
400	37	1.21	30.8	DSTNTAS400-1	1728	2571	DSTNTBS400-1	1844	2744
500	37	1.30	32.9	DSTNTAS500-1	2081	3097	DSTNTBS500-1	2206	3283
600	61	1.40	35.5	DSTNTAS600-1	2453	3650	DSTNTBS600-1	2589	3853
750	61	1.50	38.0	DSTNTAS750-1	2972	4422	DSTNTBS750-1	3119	4642
1000	61	1.65	41.9	DSTNTAS1000-1	3826	5693	DSTNTBS1000-1	3990	5938

The above data are approximate and subject to normal manufacturing tolerances. Where required, the compatibility with glands, connectors and accessories should be verified using actual dimensions of the product.

Ampacities: Refer to beginning of section.