



SHIPBOARD CABLES

U.S. Navy MIL-C 915E

DATA SHEET
No. T83A
I of 2

ELECTRONIC COMMUNICATION & INSTRUMENTATION CABLE



Type 2SWU
1 Through 61 Shielded Pairs
Watertight, Non-flexing Service
MIL-C-915E/49

Stranded tin-coated copper conductor, black or white polyethylene insulation, clear polyamide jacket, one black and one white conductor cabled to form pair, optional binder, braided tin-coated copper shield.



Type 3SWU
3 Through 44 Shielded Triads
Watertight, Non-flexing Service
Supersedes Type 3SWA
MIL-C-915E/52

Stranded bare copper conductor, black, white or red polyethylene insulation, clear polyamide jacket, three conductors (one of each color) cabled to form triad, optional binder, braided bare copper shield, shield insulation of polyester tape plus clear polyamide jacket or two sealed polyester tapes.

OIL RIG CABLE – POLYRAD PRXT TYPE

Power & Control Cables



Multi conductor PRXT singles with Neoprene or Hypalon Jacket
125°C 600/2000 Volts
Flame Retardant
Meets USCG Requirements, ABS Accepted, USGS, Alberta Government & Lloyds

APPLICATIONS:

Portable or fixed power cable for use in drilling rigs, diesel-electric locomotives, railroad and transit car wiring, where reliability is a prime concern. Also suitable for electrically-driven earth-moving equipment, shipyards, water-heater leads, AC welder power supply power and control jumpers, case wiring and motor leads. For use in wet or dry locations, in conduits, ducts, cable troughs or trays in accordance with local codes.

POWER & LIGHTING CABLES



Types TSGU, TSGA, TSGB
3 Conductors, 1000 Volts
Watertight, Non-flexing Service
MIL-C-915E / 30C

Sizes 3-23: Stranded bare copper conductor, extruded silicone rubber insulation, glass braid, braid covering, Standard Identification Code by Method 1, three conductors cabled with removable non-fibrous or combination non-fibrous and fibrous fillers, binder or combination binder/barrier. TSGU: gray special thermoplastic jacket, surface marking.



Types SHOF, DHOF, THOF, FHOF
1 Through 4 Conductors, 600 Volts
Non-watertight, Flexing Service
MIL-C-915E/6

Stranded bare copper conductor, separator, synthetic rubber insulation.

Types 6SGU, 6SGA, 6SGB
6 Conductors, 1000 Volts
Watertight, Non-flexing Service
MIL-C-915E / 33C

Stranded bare copper conductor, silicone rubber-glass tape insulation, Letter Identification Code by Method 5. Six conductors (two each of Letters A, B, C) cabled in sequence ABCABC, removable non-fibrous or combination non-fibrous and fibrous fillers, binder or combination binder/barrier. 6SGU: gray special thermoplastic jacket, surface marking.

CONTROL CABLES



Types MSCU, MSCA, MSCB
7 Through 91 Conductors, 1000 Volts
Watertight, Non-flexing Service
MIL-C-915E / 32E

Stranded bare copper conductor, extruded silicone rubber insulation, glass braid, braid covering, Standard Identification Code by Method 1, the required number of conductors cabled consecutively, removable non-fibrous fillers, binder or combination binder/barrier. MSCU: gray special thermoplastic jacket, surface marking.

Data subject to change without notice



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MARITIME CABLE

600V, Meets USCG Requirements, ABS Accepted

APPLICATIONS

For use inside or outside for power and control applications, exposed to weather in wet or dry locations. Suitable for installation in trays, troughs, channels, conduit, wireways. OSHA "Accepted". Suitable for installation in Class I, Division 2 environments. Meets the requirements of Vertical Flame Test in IEEE 45-1977.

SPECIFICATIONS

1. The conductors are soft or annealed copper, per requirements of ASTM B-3, latest edition. Sizes AWG #18 and #16 are Class K bunch stranded in accordance with ASTM B-174. Other sizes are Class C concentric stranded in accordance with ASTM B-8.
2. The insulation compound over individual conductors is color-coded, heat-resistant, high dielectric polyvinyl chloride (PVC), rated 105°C, nylon covered and meets the requirements of ICEA S-61-402.
3. The insulated conductors are cabled together with non- hydroscopic fillers as necessary.
4. The overall jacket is flame resistant PVC compound, rated 90°C, meeting the requirements of ICEA S-61-402, Par 4.3.1
5. Aluminum or bronze armored overall to IEEE 45-1977, if required



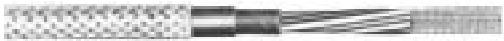
SNIA #16AWG thru 50 MCM



DNIA #16AWG thru 600 MCM



TNIA #16AWG thru 600MCM



MNIA Multi Conductors, #16AWG thru #14AWG



FNIA #14AWG thru #4/0AWG

SHIPBOARD CABLES

SGU Family	-NW Family	1SWF
SSGU, SSGA, SSGB	DNW	2SWF
DSGU, DSGA, DSGB	TNW	1SU
TSGU, TSGA, TSGB	FNW	2SU
FSGU, FSGA, FSGB	MNW	3SU
MSCU, MSCA, MSCB	CVSF	1SWU
6SGU, 6SGA, 6SGB	MS	2SWU
7SGU, 7SGA, 7SGB	TCJU, TCJA	3SWU
5KVTSGU, 5KVTSGA	TCTU, TCTA	1SMU
-RW Family	TCJX	1S50MU
SRW	TCKX	1S75MU
DRW	TCTX	DLT
TRW	-PS Family	2U
-HOF Family	DIPS	3U
SHOF	TPS	ECM
DHOF	FPS	MMOP
THOF	7PS	MSPW
FHOF	SSF	MSP
MHOF	DSWS	MRI
TTRS	JAS	PBTMU
TTSU, TTSA	MCSF	PI
-COP Family	MDU	S2S
DCOP	TRF	TPNW
TCOP	TRXF	TPU
MCOS	MU	1SAU
TSP	MWF	1SMWU
TTOP	-SS Family	2AU
-SJ Family	DSS	2SWAU
2SJ	TSS	2WAU
3SJ	FSS	3SF
4SJ	7SS	
	5SS	

METRIC CONVERSION CHART

AWG/MCM	mm=	circ mills	AWG/MCM	mm2	circ mills
*2000		2000000		+ 25	49 300
	+1000	1970000	*4		41 740
		1750000		+ 16	31600
*1750	+ 800	1580000	*6		26 240
		1500000		+ 10	19 700
*1500		1250000	**	+ 6.0	16 510
*1250	+ 630	1240000			11800
		1000000	*10		10380
*1000	+ 500	987000		+ 4.0	7 890
	+ 400	789000	*12		6530
		750000		+ 2.5	4 930
*750		600000	*14		4 110
*800	+ 300	592000		+ 1.5	2960
		500000	*16		2580
*500	+ 240	474000		+ 1.0	1970
		400000		0.90	1 773
*400	+ 185	365000	*18		1 620
		350000		0.80	1 576
*350		300 000		+0.75	1 480
*300	+ 150	296000		+0.60	1 182
		250000	*20		1 020
*250	+ 120	237000		+0.50	987
		211600	*22		640
*410	+ 95	187000	*24		404
		167 000	*26	+0.20	253
*310	+ 70	138000	*28		159
		133100	*30	.05	100
*2/0		105 600	32		64.0
*1/0	+ 50	98 700	*34	.02	39.7
		83 690	36		25.0
1	+ 35	69 100	38		16.0
		66360	*40	.005	9.61
*2		52 620			
3					

+ Metric (IEC 228) preferred size *American Wire Gauge preferred sizes

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