

M-Route[®]

Military Cables

ENTERPRISE WITH DREAM, HOPE, AND FUTURE

TMC Co., Ltd has been pursuing innovation in technology and products for the specialty industrial cable market.

For 30 years TMC has had a single-minded focus on delivering superior customer services with marine and offshore plant cable solutions.

The operational excellence of TMC is underpinned by its products with the best quality and outstanding service to meet specific requirements that makes us the world's most experienced marine and offshore cable manufacturer.

Company History

- 1991** Establishment of Seojin Industry Co.,Ltd.
- 1998** ISO 9001 Certification by LRQA
- 2004** ISO 14001 Certification by LRQA
- 2005** Changed the name of company to TMC Co.,Ltd.
- 2006** Won the 30 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2006** Earned recognition by Hyundai Mipo Dockyard Co., Ltd. as one of the excellent suppliers.
- 2007** Won the 70 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2007** Received the High quality supplier Certification from DSME
- 2007** Achieved Korean world-class product award 2007
- 2008** Won the 100 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2008** OHSAS 18001 Certification by LRQA
- 2009** Awarded the Q-Mark as a Silver grade for Offshore Cable supplier by Samsung Heavy Industries
- 2010** Awarded the Best Supplier for Offshore & Marine Cable by Ocean Rig
- 2010** Earned recognition by DSME as one of the excellent supplier
- 2011** Awarded the Best Supplier for Offshore & Marine Cable by Stena Sphere
- 2011** KEPIC Certification by KEA (Manufacture of Class 1E cable)
- 2012** Won the 200 million USD Export Tower Award granted by the Ministry of Knowledge Economy
- 2013** Designated as 'Korean Hidden Champion' by Korea Eximbank
- 2013** TL9000 certification by SGS (design & manufacture of optical fiber cable)
- 2014** Earned recognition by DSME Excellent supplier
- 2015** Minister Citation by the Ministry of Trade, Industry & Energy
- 2015** Acquisition of Zeepel
- 2016** Acquisition of Glow One (Formerly Posco LED)
- 2017** Awarded 'Certificate of Reliable marine equipment manufacturer&supplier' by KOSHIPA and KOMEA
- 2018** Selected as Best Quality Managed Supplier of Hyundai Heavy Industries(2017)
- 2019** Selected as Best Quality Managed Supplier of Hyundai Heavy Industries(2018)
- 2019** Selected as Best Partner of Samsung Heavy Industries
- 2020** Selected as Best A/S Quality Managed Supplier of DSME(2019)
- 2020** Selected as Best Partner of Samsung Heavy Industries(2020)

Certificates

- Type Approval Certification for MIL-DTL-24643C Military cables : KR
- Type Approval Certification for MIL-DTL-246430 Military cables : KR
- Type Approval Certification for VG 95218 Part. 60~66 Submarine cables : KR
- Type Approval Certification for shipboard cables : ABS, BV, DNV, GL, KR, LR, NK and RINA
- Type Approval Certification for NEK 606(2004) offshore cables : ABS, DNV and LR
- Type Approval Certification by ABS for offshore cables and listed on ETL
- Type Approval Certification for Passenger ships cables : ABS, DNV,LR, BV and CCS
- Obtained Patent of Paint Resistant Shipboard Cables (Patent NO. 10-0627241)
- Type Approval Certification for IEEE1580 Type P cables : ABS, DNV, CSA and listed on ETL
- Type Approval Certification for LNG Carrier cables : ABS, DNV, LR and BV
- Gost-R Certification for NEK 606(2004) offshore cables by GOSSTANDART
- Type Approval Certification for Marine Optical Fiber Cables : ABS and DNV







MIL-DTL-24643C

Type	Detail specification sheet No.	Description
LSS(D,T,F)HOF	MIL-DTL-24643C / 3E	(Single~Four) conductor, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket
LSMHOF	MIL-DTL-24643C / 7F	Multi conductor, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket
LSSSF	MIL-DTL-24643C / 11E	Single conductor, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket
LSS(D,T,F)SGU	MIL-DTL-24643C / 14F~17F	(Single~Four) conductor, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LSMSCU	MIL-DTL-24643C / 18F	Multi conductor, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LSMSCS	MIL-DTL-24643C / 18F	Multi conductor, Watertight with Circuit integrity, Thermoset insulation, Double braid shield, Cross-linked polyolefin jacket
LS6SGU	MIL-DTL-24643C / 19F	Six conductor, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LS7SGU	MIL-DTL-24643C / 20F	Seven conductor, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LSTCJU	MIL-DTL-24643C / 21F	Two conductor, Thermocouple Type J, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LSTCTU	MIL-DTL-24643C / 21F	Two conductor, Thermocouple Type T, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LS5KVTSGU	MIL-DTL-24643C / 22E	Three conductor, 5000V, Watertight with Circuit integrity, Thermoset insulation, Cross-linked polyolefin jacket
LSTTSU	MIL-DTL-24643C / 23G	Twisted pairs, Watertight with Circuit integrity, Thermoset insulation, Polyamide insulation jacket, Cross-linked polyolefin jacket
LSTCJX	MIL-DTL-24643C / 24C	Twisted pairs, Thermocouple Type J, Watertight with Circuit integrity, silicon rubber insulation, Glass braid, silicon rubber jacket, Braid armour
LSTCKX	MIL-DTL-24643C / 24C	Twisted pairs, Thermocouple Type K, Watertight with Circuit integrity, silicon rubber insulation, Glass braid, silicon rubber jacket, Braid armour
LSTCTX	MIL-DTL-24643C / 24C	Twisted pairs, Thermocouple Type T, Watertight with Circuit integrity, silicon rubber insulation, Glass braid, silicon rubber jacket, Braid armour
LSTCJXN	MIL-DTL-24643C / 24C	Twisted pairs, Thermocouple Type J, Non-watertight with Circuit integrity, silicon rubber insulation, Glass braid, silicon rubber jacket, Braid armour
LSTCKXN	MIL-DTL-24643C / 24C	Twisted pairs, Thermocouple Type K, Non-watertight with Circuit integrity, silicon rubber insulation, Glass braid, silicon rubber jacket, Braid armour
LSTCTXN	MIL-DTL-24643C / 24C	Twisted pairs, Thermocouple Type T, Non-watertight with Circuit integrity, silicon rubber insulation, Glass braid, silicon rubber jacket, Braid armour
LS1SWU	MIL-DTL-24643C / 30F	Twisted shielded pairs, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS2SU	MIL-DTL-24643C / 31F	Twisted shielded pairs, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS2SUS	MIL-DTL-24643C / 31F	Twisted shielded pairs, Non-watertight, Thermoset insulation, Double braid shield, Cross-linked polyolefin jacket
LS2SWAU	MIL-DTL-24643C / 32F	Twisted shielded pairs, Watertight, Thermoset insulation, Braid shield, Cross-linked polyolefin jacket
LS2SWU	MIL-DTL-24643C / 33F	Twisted shielded pairs, Watertight, Thermoset insulation, Braid shield, Cross-linked polyolefin jacket
LS3SU	MIL-DTL-24643C / 35D	Twisted shielded triads, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS3SUS	MIL-DTL-24643C / 35D	Twisted shielded triads, Non-watertight, Thermoset insulation, Double braid shield, Cross-linked polyolefin jacket
LS3SWU	MIL-DTL-24643C / 36F	Twisted shielded triads, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS3SWUS	MIL-DTL-24643C / 36F	Twisted shielded triads, Watertight, Thermoset insulation, Double braid shield, Cross-linked polyolefin jacket
LSECM	MIL-DTL-24643C / 38F	56 conductor plus 8 Twisted shield pairs, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS2(3,4)SJ	MIL-DTL-24643C / 43F	(Two~Four) conductor, Non-watertight, Thermoset insulation, Braid shield, Cross-linked polyolefin jacket
LS2WAU	MIL-DTL-24643C / 46F	Twisted pairs, Watertight, Thermoset insulation, Braid shield, Cross-linked polyolefin jacket
LS1SMWU	MIL-DTL-24643C / 47D	70 shielded cores, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LSSRW	MIL-DTL-24643C / 53F	Single conductor, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LSDRW	MIL-DTL-24643C / 53F	Two conductor, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LSTRW	MIL-DTL-24643C / 53F	Three conductor, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS8NW	MIL-DTL-24643C / 54F	8 conductor, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS2SWL	MIL-DTL-24643C / 56F	Seven twisted shielded pairs, Watertight, Thermoset insulation, Cross-linked polyolefin jacket
LS2UW	MIL-DTL-24643C / 57F	42 Twisted pairs, Watertight, Thermoset insulation, Braid shield, Cross-linked polyolefin jacket
LS2UWS	MIL-DTL-24643C / 57F	42 Twisted pairs, Watertight, Thermoset insulation, Double braid shield, Cross-linked polyolefin jacket
LSYSGU	MIL-DTL-24643C / 63A	7 conductor, Watertight with Circuit integrity, Silicon rubber or silicon rubber-glass tape insulation, Cross-linked polyolefin jacket
LS2(3,4)OW	MIL-DTL-24643C / 66A~68A	(Two~Four) conductor, Watertight with Circuit integrity, Thermoset insulation, Braid shield, Cross-linked polyolefin jacket
LSSCF	MIL-DTL-24643C / 71A	Single conductor, Non-watertight, Silicon insulation, Cross-linked polyolefin jacket
LSTCF	MIL-DTL-24643C / 73A	Three conductor, Non-watertight, Thermoset insulation, Cross-linked polyolefin jacket

LSMHOF

MIL-DTL-24643C/7F

Electrical cables, 600V, **Non-Watertight**, Temp. -20°C to 90°C, 7~61 Conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/7)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LSMHOF-7	16 (Class K)	7	0.020	0.51	0.060	1.52	0.465	11.81	0.500	12.70	241	4.59	500	2000	4.0	11/7	9/6	11/7	9/6	
-02UN	LSMHOF-10	16 (Class K)	10	0.020	0.51	0.060	1.52	0.540	13.72	0.585	14.86	319	4.59	500	2000	4.5	11/7	9/6	11/7	9/6	
-03UN	LSMHOF-14	16 (Class K)	14	0.020	0.51	0.060	1.52	0.585	14.86	0.635	16.13	400	4.59	500	2000	5.0	11/7	9/6	11/7	9/6	
-04UN	LSMHOF-19	16 (Class K)	19	0.020	0.51	0.060	1.52	0.650	16.51	0.705	17.91	517	4.59	500	2000	5.5	11/7	9/6	11/7	9/6	
-05UN	LSMHOF-24	16 (Class K)	24	0.020	0.51	0.060	1.52	0.735	18.67	0.795	20.19	650	4.59	500	2000	6.5	11/7	9/6	11/7	9/6	
-06UN	LSMHOF-30	16 (Class K)	30	0.020	0.51	0.060	1.52	0.775	19.69	0.835	21.21	767	4.59	500	2000	6.5	11/7	9/6	11/7	9/6	
-07UN	LSMHOF-37	16 (Class K)	37	0.020	0.51	0.060	1.52	0.855	21.72	0.925	23.50	914	4.59	500	2000	7.5	11/5	9/4	11/5	9/4	
-08UN	LSMHOF-44	16 (Class K)	44	0.020	0.51	0.060	1.52	0.925	23.50	1.000	25.40	1088	4.59	500	2000	8.0	11/4	9/3	11/4	9/3	
-09UN	LSMHOF-61	16 (Class K)	61	0.020	0.51	0.060	1.52	1.100	27.94	1.175	29.85	1494	4.59	500	2000	9.5	11/3	9/2	11/3	9/2	

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

LSSSF

MIL-DTL-24643C/11E

Electrical cables, 600V, **Non-Watertight**, Temp. -20°C to 90°C, Single Conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Reinforcement	Option
Jacket	Cross-linked polyolefin

Military part No. (24643/11)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LSSSF-7	300MCM (Class G)	1	0.075	1.91	0.075	1.91	1.020	25.91	1.100	27.94	-	0.04	100	2500	6.6	-	-	-	-	



LSSSGU

MIL-DTL-24643C/14F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, Single Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material (white) extruded or taped
Jacket	Cross-linked polyolefin

Military part No. (24643/14)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LSSSGU-50	3 (Class C)		1	0.035	0.89	0.040	1.02	-	-	0.520	13.21	410	0.209	160	5000	3.5	149	137	149	137
-02UN	LSSSGU-75	1 (Class C)		1	0.035	0.89	0.040	1.02	-	-	0.602	15.29	595	0.132	135	5000	4.0	197	181	197	181
-03UN	LSSSGU-100	0 (Class D)		1	0.040	1.02	0.050	1.27	-	-	0.669	16.99	745	0.105	125	5000	4.5	232	214	232	214
-04UN	LSSSGU-200	0000 (Class D)		1	0.050	1.27	0.050	1.27	-	-	0.872	22.15	1368	0.0525	90	5000	5.5	361	332	-	-
-05UN	LSSSGU-300	300MCM (Class D)		1	0.060	1.52	0.050	1.27	-	-	1.001	25.43	1882	0.0370	80	5000	6.5	467	430	-	-
-06UN	LSSSGU-400	400 (127)		1	0.060	1.52	0.050	1.27	-	-	1.118	28.40	2503	0.0268	70	5000	7.0	575	530	-	-
-07UN	LSSSGU-650	650MCM (Class D)		1	0.060	1.52	0.060	1.52	-	-	1.371	34.82	3831	0.0170	60	5000	8.5	785	722	-	-
-08UN	LSSSGU-800	800MCM (Class D)		1	0.060	1.52	0.060	1.52	-	-	1.485	37.72	4642	0.0138	50	5000	9.5	940	865	-	-
-09UN	LSSSGU-1000	1000MCM (Class D)		1	0.060	1.52	0.060	1.52	-	-	1.620	41.15	5701	0.0110	40	5000	10.0	1090	950	-	-
-10UN	LSSSGU-1600	1600MCM (Class B)		1	0.080	2.03	0.075	1.91	-	-	2.010	51.05	9095	0.00693	40	5000	12.5	1450	1270	-	-
-11UN	LSSSGU-2000	2000MCM (Class B)		1	0.080	2.03	0.075	1.91	-	-	2.210	56.13	11223	0.00555	35	5000	13.5	1630	1450	-	-

LSDSGU

MIL-DTL-24643C/15F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, Two Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1 or 3 or Letter identification code applied by Method 5
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/15)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LSDSGU-3	16 (Class B)		2	0.018	0.46	0.030	0.76	-	-	0.391	9.93	128	4.3	500	3000	3.0	13	12	13	12
-02UN	LSDSGU-4	14 (Class B)		2	0.018	0.46	0.030	0.76	-	-	0.427	10.85	164	2.68	500	3000	3.0	22	20	22	20
-03UN	LSDSGU-9	10 (Class B)		2	0.018	0.46	0.040	1.02	-	-	0.544	13.82	282	1.08	500	3000	4.0	44	41	44	41
-04UN	LSDSGU-14	9 (Class B)		2	0.018	0.46	0.040	1.02	-	-	0.670	17.02	383	0.859	500	5000	4.0	60	55	60	55
-05UN	LSDSGU-23	7 (Class B)		2	0.035	0.89	0.050	1.27	-	-	0.781	19.84	580	0.543	500	5000	5.0	78	72	78	72
-06UN	LSDSGU-50	3 (Class C)		2	0.035	0.89	0.050	1.27	-	-	0.911	23.14	1098	0.210	200	5000	6.0	126	116	126	116
-07UN	LSDSGU-75	1 (Class C)		2	0.035	0.89	0.050	1.27	-	-	1.074	27.28	1585	0.134	175	5000	7.0	168	155	168	155
-08UN	LSDSGU-100	0 (Class D)		2	0.035	0.89	0.050	1.27	-	-	1.167	29.64	1905	0.106	160	5000	7.5	199	183	199	183
-09UN	LSDSGU-200	0000 (Class D)		2	0.050	1.27	0.060	1.52	-	-	1.583	40.21	3634	0.053	125	5000	10.0	308	284	288	266
-10UN	LSDSGU-300	300MCM (Class D)		2	0.050	1.27	0.075	1.91	-	-	1.841	46.76	4963	0.0377	110	5000	11.5	413	380	347	319
-11UN	LSDSGU-400	400 (127)		2	0.050	1.27	0.075	1.91	-	-	2.069	52.55	6535	0.0273	100	5000	13.0	492	453	337	310

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LSTSGU

MIL-DTL-24643C/16F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 90°C, 7~61 Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1 or 3 or Letter identification code applied by Method 5
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/16)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							40°C	50°C	40°C	50°C
									inch	mm	inch	mm									
-01UN	LSTSGU-3		16 (Class B)	3	0.018	0.46	0.030	0.76	-	-	0.411	10.44	157	4.3	500	3000	3.0	11	10	11	10
-02UN	LSTSGU-4		14 (Class B)	3	0.018	0.46	0.030	0.76	-	-	0.449	11.40	202	2.68	500	3000	3.0	18	17	18	17
-03UN	LSTSGU-9		10 (Class B)	3	0.015	0.38	0.040	1.02	-	-	0.575	14.61	350	1.08	500	3000	4.0	39	36	39	36
-04UN	LSTSGU-14		9 (Class B)	3	0.018	0.46	0.040	1.02	-	-	0.718	18.24	453	0.859	500	5000	4.5	51	47	51	47
-05UN	LSTSGU-23		7 (Class B)	3	0.018	0.46	0.050	1.27	-	-	0.812	20.62	720	0.543	500	5000	5.0	69	64	69	64
-055UN	LSTSGU-30	30 (19)		3	0.030	0.76	0.050	1.27	-	-	0.852	21.64	936	0.358	225	5000	-	-	-	-	-
-058UN	LSTSGU-40		4 (Class C)	3	0.030	0.76	0.050	1.27	-	-	0.900	22.86	1178	0.290	215	5000	-	-	-	-	-
-06UN	LSTSGU-50		3 (Class C)	3	0.035	0.89	0.050	1.27	-	-	0.969	24.61	1402	0.210	200	5000	6.5	110	101	110	101
-065UN	LSTSGU-60		2 (Class D)	3	0.035	0.89	0.050	1.27	-	-	1.060	26.92	1686	0.190	190	5000	-	-	-	-	-
-07UN	LSTSGU-75		1 (Class C)	3	0.035	0.89	0.050	1.27	-	-	1.134	28.80	2033	0.134	175	5000	7.5	148	136	148	136
-08UN	LSTSGU-100		0 (Class D)	3	0.035	0.89	0.060	1.52	-	-	1.266	32.16	2505	0.106	160	5000	8.0	174	160	174	160
-085UN	LSTSGU-125	125	00 (Class D)	3	0.040	1.02	0.060	1.52	-	-	1.408	35.76	3125	0.0888	150	5000	-	-	-	-	-
-09UN	LSTSGU-150		000 (Class D)	3	0.040	1.02	0.060	1.52	-	-	1.515	38.48	3788	0.0674	135	5000	9.5	235	216	224	206
-10UN	LSTSGU-200		0000 (Class D)	3	0.050	1.27	0.060	1.52	-	-	1.669	42.39	4736	0.0530	125	5000	10.5	271	250	254	234
-105UN	LSTSGU-250	250	250MCM (Class C)	3	0.050	1.27	0.060	1.52	-	-	1.794	45.57	5461	0.0444	120	5000	-	-	-	-	-
-11UN	LSTSGU-300		300MCM (Class D)	3	0.050	1.27	0.075	1.91	-	-	1.957	49.71	6498	0.0377	110	5000	12.0	348	320	292	269
-115UN	LSTSGU-350		350MCM (Class D)	3	0.050	1.27	0.075	1.91	-	-	2.073	52.65	7440	0.0316	105	5000	-	-	-	-	-
-12UN	LSTSGU-400	400 (127)		3	0.050	1.27	0.075	1.91	-	-	2.203	55.96	8616	0.0273	100	5000	13.5	435	400	298	274

LSFSGU

MIL-DTL-24643C/17F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, Four Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1 or 3 or Letter identification code applied by Method 5
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/17)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (ΔΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSFSGU-3	16 (Class B)	4	0.018	0.46	0.030	0.76	-	-	0.447	11.35	195	4.3	500	3000	3.0	11	10	11	10	
- 02UN	LSFSGU-4	14 (Class B)	4	0.018	0.46	0.040	1.02	-	-	0.513	13.03	265	2.68	500	3000	3.5	18	17	18	17	
- 03UN	LSFSGU-9	10 (Class B)	4	0.015	0.38	0.040	1.02	-	-	0.630	16.00	460	1.08	500	3000	4.5	39	36	39	36	
- 04UN	LSFSGU-23	7 (Class B)	4	0.018	0.46	0.050	1.27	-	-	0.890	22.61	889	0.543	500	5000	5.5	69	64	69	64	
- 05UN	LSFSGU-50	3 (Class C)	4	0.035	0.89	0.050	1.27	-	-	1.050	26.67	1748	0.210	200	5000	6.5	110	101	110	101	
- 06UN	LSFSGU-75	1 (Class C)	4	0.035	0.89	0.050	1.27	-	-	1.240	31.50	2560	0.134	175	5000	8.0	148	136	148	136	
- 07UN	LSFSGU-100	0 (Class D)	4	0.035	0.89	0.060	1.52	-	-	1.358	34.49	3142	0.106	160	5000	8.5	174	160	170	157	
- 08UN	LSFSGU-150	000 (Class D)	4	0.040	1.02	0.060	1.52	-	-	1.625	41.28	4785	0.0674	135	5000	10.0	235	216	224	206	
- 09UN	LSFSGU-200	0000 (Class D)	4	0.050	1.27	0.060	1.52	-	-	1.820	46.23	5999	0.0536	125	5000	11.0	271	250	254	234	

LSMSCU

MIL-DTL-24643C/18F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, 7-91 Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/18)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (ΔΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSMSCU-7	18 (Class B)	7	0.018	0.46	0.040	1.02	0.447	11.35	0.484	12.29	218	7.07	500	3000	3.5	12/8	9/6	12/8	9/6	
- 02UN	LSMSCU-10	18 (Class B)	10	0.018	0.46	0.050	1.27	0.575	14.61	0.622	15.80	354	7.07	500	3000	4.0	12/8	9/6	12/8	9/6	
- 03UN	LSMSCU-14	18 (Class B)	14	0.018	0.46	0.050	1.27	0.617	15.67	0.668	16.97	434	7.07	500	3000	4.5	12/8	9/6	12/8	9/6	
- 04UN	LSMSCU-19	18 (Class B)	19	0.018	0.46	0.050	1.27	0.682	17.32	0.738	18.75	541	7.07	500	3000	5.0	12/8	9/6	12/8	9/6	
- 05UN	LSMSCU-24	18 (Class B)	24	0.018	0.46	0.050	1.27	0.790	20.07	0.855	21.72	725	7.07	500	3000	5.5	12/6	9/5	12/6	9/5	
- 06UN	LSMSCU-30	18 (Class B)	30	0.018	0.46	0.050	1.27	0.833	21.16	0.901	22.89	838	7.07	500	3000	5.5	12/6	9/5	12/6	9/5	
- 07UN	LSMSCU-37	18 (Class B)	37	0.018	0.46	0.060	1.52	0.926	23.52	1.002	25.45	1022	7.07	500	3000	6.0	12/6	9/5	12/6	9/5	
- 08UN	LSMSCU-44	18 (Class B)	44	0.018	0.46	0.060	1.52	1.030	26.16	1.114	28.30	1271	7.07	500	3000	7.0	12/5	9/4	12/5	9/4	
- 09UN	LSMSCU-61	18 (Class B)	61	0.018	0.46	0.060	1.52	1.156	29.36	1.250	31.75	1609	7.07	500	3000	8.0	12/4	9/3	12/4	9/3	
- 10UN	LSMSCU-91	18 (Class B)	91	0.018	0.46	0.060	1.52	1.369	34.77	1.480	37.59	2330	7.07	500	3000	9.0	12/4	9/3	12/4	9/3	

Note. Individual/Average indicates the maximum current for each conductor(I_{nd}), and the maximum current(A_{vg}) for each conductor when all conductors in the cable are used.

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LSMSCS

MIL-DTL-24643C/18F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, 7~91 Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Double braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/18)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UD	LSMSCS-7	18 (Class B)	7	0.018	0.46	0.040	1.02	0.507	12.88	0.544	13.82	343	7.07	500	3000	6.5	12/8	9/6	12/8	9/6	
- 02UD	LSMSCS-10	18 (Class B)	10	0.018	0.46	0.050	1.27	0.635	16.13	0.682	17.32	518	7.07	500	3000	8.5	12/8	9/6	12/8	9/6	
- 03UD	LSMSCS-14	18 (Class B)	14	0.018	0.46	0.050	1.27	0.677	17.20	0.728	18.49	681	7.07	500	3000	9.5	12/8	9/6	12/8	9/6	
- 04UD	LSMSCS-19	18 (Class B)	19	0.018	0.46	0.050	1.27	0.742	18.85	0.798	20.27	818	7.07	500	3000	9.5	12/8	9/6	12/8	9/6	
- 05UD	LSMSCS-24	18 (Class B)	24	0.018	0.46	0.050	1.27	0.850	21.59	0.915	23.24	1205	7.07	500	3000	11.5	12/6	9/5	12/6	9/5	
- 06UD	LSMSCS-30	18 (Class B)	30	0.018	0.46	0.050	1.27	0.893	22.68	0.961	24.41	1348	7.07	500	3000	12.0	12/6	9/5	12/6	9/5	
- 07UD	LSMSCS-37	18 (Class B)	37	0.018	0.46	0.060	1.52	0.986	25.04	1.065	27.05	1580	7.07	500	3000	13.0	12/6	9/5	12/6	9/5	
- 08UD	LSMSCS-44	18 (Class B)	44	0.018	0.46	0.060	1.52	1.090	27.69	1.174	29.82	1903	7.07	500	3000	14.0	12/5	9/4	12/5	9/4	
- 09UD	LSMSCS-61	18 (Class B)	61	0.018	0.46	0.060	1.52	1.216	30.89	1.310	33.27	2315	7.07	500	3000	16.0	12/4	9/3	12/4	9/3	
- 10UD	LSMSCS-91	18 (Class B)	91	0.018	0.46	0.060	1.52	1.429	36.30	1.540	39.12	3183	7.07	500	3000	18.5	12/4	9/3	12/4	9/3	

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

LS6SGU

MIL-DTL-24643C/19F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, Six Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material
Identification	Standard identification code by Method 5
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/19)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LS6SGU-100	0 (Class D)	6	0.035	0.89	0.060	1.52	-	-	1.600	40.64	-	0.1060	160	5000	10.0	136	127	272	250	
- 02UN	LS6SGU-125	00 (Class D)	6	0.040	1.02	0.060	1.52	-	-	1.790	45.47	-	0.0850	150	5000	11.5	160	147	299	275	
- 03UN	LS6SGU-150	000 (Class D)	6	0.040	1.02	0.060	1.52	-	-	1.960	49.78	-	0.0674	135	5000	12.0	188	173	326	300	
- 04UN	LS6SGU-200	0000 (Class D)	6	0.050	1.27	0.075	1.91	-	-	2.200	55.88	-	0.0530	125	5000	13.5	219	202	369	340	



LS7SGU

MIL-DTL-24643C/20F

Electrical cables, 1000V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, Seven Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/20)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSFSGU-3	16 (Class B)	4	0.018	0.46	0.030	0.76	-	-	0.447	11.35	195	4.3	500	3000	3.0	11	10	11	10	
- 02UN	LSFSGU-4	14 (Class B)	4	0.018	0.46	0.040	1.02	-	-	0.513	13.03	265	2.68	500	3000	3.5	18	17	18	17	

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

LSTCJU, LSTCTU

MIL-DTL-24643C/21F

Electrical cables, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, Two Conductor

Conductor	LSTCJU : Type J thermocouple, LSTCTU : Type T thermocouple
Insulation	Thermoset material extruded or taped
Glass braid	Option
Identification	LSTCJU : Printed '8 (GREY)' on the iron and '3 (RED)' on the constantan conductor LSTCTU : Printed '6 (BLUE)' on the copper and '3 (RED)' on the constantan conductor
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/21)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSTCJU-4	14	2	0.105	2.67	0.04	1.02	0.4	10.16	0.43	10.92	-	-	500	3000	3.0	-	-	-	-	
- 02UN	LSTCTU-4	14	2	0.105	2.67	0.04	1.02	0.4	10.16	0.43	10.92	-	-	500	3000	3.0	-	-	-	-	

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS5KVTSGU

MIL-DTL-24643C/22E

Electrical cables, 5000V, **Watertight with Circuit Integrity**, Temp. -20°C to 90°C, Three Conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material extruded or taped
Covering	Option
Identification	Standard identification code by Method 1 or Letter identification code applied by Method 5
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/22)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LS5KVTSGU-100	100	0 (Class D)	3	0.140	3.56	0.090	2.29	-	-	1.740	44.20	-	0.106	400	13500	11.8	174	160	-	-
-02UN	LS5KVTSGU-150	150	000 (Class D)	3	0.140	3.56	0.090	2.29	-	-	1.950	49.53	-	0.0674	350	13500	13.0	235	216	-	-
-03UN	LS5KVTSGU-250	250	250MCM (Class C)	3	0.140	3.56	0.090	2.29	-	-	2.220	56.39	-	0.0453	300	13500	14.5	315	290	-	-
-04UN	LS5KVTSGU-350	350	350MCM (Class D)	3	0.140	3.56	0.090	2.29	-	-	2.450	62.23	-	0.0321	265	13500	15.9	391	360	-	-
-05UN	LS5KVTSGU-400	400 (127)		3	0.140	3.56	0.090	2.29	-	-	2.600	66.04	-	0.0273	250	13500	16.5	435	400	-	-

LSTTSU

MIL-DTL-24643C/23G

Electrical cables, 300V, **Watertight with Circuit Integrity**, Temp. -20°C to 105°C, 1^{1/2}-60 pairs

Conductor	Coated or uncoated copper
Insulation	Thermoset material (one White & one Black) For LSTTSU-1 ^{1/2} : one White & one Black & one Red
Insulation jacket	Polyamide
Twist	Two conductors cabled to form a pair For LSTTSU-1 ^{1/2} only, Three conductor cabled to form a triad
Identification	Pair identification code by Method 6
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/23)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LSTTSU-1 ^{1/2}		22 (Class K)	1 ^{1/2}	0.017	0.43	0.050	1.27	-	-	0.330	8.38	81	18.60	100	2000	2.5	-	-	-	-
-02UN	LSTTSU-3		22 (Class K)	3	0.017	0.43	0.050	1.27	-	-	0.450	11.43	168	18.60	100	2000	3.0	-	-	-	-
-03UN	LSTTSU-5		22 (Class K)	5	0.017	0.43	0.050	1.27	-	-	0.540	13.72	251	18.60	100	2000	3.5	-	-	-	-
-04UN	LSTTSU-10		22 (Class K)	10	0.017	0.43	0.062	1.57	-	-	0.675	17.15	398	18.60	100	2000	4.0	-	-	-	-
-05UN	LSTTSU-15		22 (Class K)	15	0.017	0.43	0.062	1.57	-	-	0.800	20.32	512	18.60	100	2000	5.0	-	-	-	-
-06UN	LSTTSU-20		22 (Class K)	20	0.017	0.43	0.062	1.57	-	-	0.870	22.10	622	18.60	100	2000	5.5	-	-	-	-
-07UN	LSTTSU-30		22 (Class K)	30	0.017	0.43	0.075	1.91	-	-	1.080	27.43	996	18.60	100	2000	6.0	-	-	-	-
-08UN	LSTTSU-40		22 (Class K)	40	0.017	0.43	0.075	1.91	-	-	1.200	30.48	1326	18.60	100	2000	7.0	-	-	-	-
-09UN	LSTTSU-50		22 (Class K)	50	0.017	0.43	0.075	1.91	-	-	1.400	35.56	1612	18.60	100	2000	7.5	-	-	-	-
-10UN	LSTTSU-60		22 (Class K)	60	0.017	0.43	0.075	1.91	-	-	1.450	36.83	1917	18.60	100	2000	8.0	-	-	-	-



LSTCJX, LSTCKX, LSTCTX, LSTCJXN, LSTCKXN, LSTCTXN



MIL-DTL-24643C/24C

Electrical cables, **Watertight or Non Watertight with Circuit integrity**, Temp. -20°C to 150°C, 1~12 Pairs

Conductor	LSTCJX, LSTCJXN : Type J thermocouple, LSTCKX, LSTCKXN : Type K thermocouple LSTCTX, LSTCTXN : Type T thermocouple
Insulation	Silicon rubber
Glass braid	Applied
Covering	Braid covering
Identification	Color code applied by Method 4
Cabling	On multi-pairs, Filler may be used as necessary
Jacket	Silicon rubber
Armour	Braid metal armour

Military part No. (24643/24)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01AN	LSTCJX-3		16	3	0.100	2.54	0.050	1.27	-	-	0.742	18.85	433	-	500	2000	4.0	-	-	-	-
- 02AN	LSTCJX-7		16	7	0.100	2.54	0.062	1.57	-	-	0.983	24.97	773	-	500	2000	5.5	-	-	-	-
- 03AN	LSTCJX-12		16	12	0.100	2.54	0.062	1.57	-	-	1.269	32.23	1205	-	500	2000	6.5	-	-	-	-
- 04AN	LSTCKX-1		16	1	0.100	2.54	0.038	0.97	-	-	0.456	11.58	169	-	500	2000	2.5	-	-	-	-
- 05AN	LSTCKX-3		16	3	0.100	2.54	0.050	1.27	-	-	0.742	18.85	433	-	500	2000	4.0	-	-	-	-
- 06AN	LSTCKX-7		16	7	0.100	2.54	0.062	1.57	-	-	0.983	24.97	773	-	500	2000	5.5	-	-	-	-
- 07AN	LSTCKX-12		16	12	0.100	2.54	0.062	1.57	-	-	1.269	32.23	1205	-	500	2000	6.5	-	-	-	-
- 08AN	LSTCTX-1		21	1	0.065	1.65	0.038	0.97	-	-	0.350	8.89	169	-	500	2000	2.0	-	-	-	-
- 09AN	LSTCTX-3		21	3	0.065	1.65	0.038	0.97	-	-	0.552	14.02	433	-	500	2000	3.5	-	-	-	-
- 10AN	LSTCTX-7		21	7	0.065	1.65	0.050	1.27	-	-	0.731	18.57	773	-	500	2000	4.0	-	-	-	-
- 11AN	LSTCTX-12		21	12	0.065	1.65	0.063	1.60	-	-	0.964	24.49	1205	-	500	2000	5.0	-	-	-	-
- 12AN	LSTCJXN-3		16	3	0.100	2.54	0.050	1.27	-	-	0.742	18.85	-	-	500	2000	4.0	-	-	-	-
- 13AN	LSTCJXN-7		16	7	0.100	2.54	0.062	1.57	-	-	0.983	24.97	-	-	500	2000	5.5	-	-	-	-
- 14AN	LSTCJXN-12		16	12	0.100	2.54	0.062	1.57	-	-	1.269	32.23	-	-	500	2000	6.5	-	-	-	-
- 15AN	LSTCKXN-1		16	1	0.100	2.54	0.038	0.97	-	-	0.456	11.58	-	-	500	2000	2.5	-	-	-	-
- 16AN	LSTCKXN-3		16	3	0.100	2.54	0.050	1.27	-	-	0.742	18.85	-	-	500	2000	4.0	-	-	-	-
- 17AN	LSTCKXN-7		16	7	0.100	2.54	0.062	1.57	-	-	0.983	24.97	-	-	500	2000	5.5	-	-	-	-
- 18AN	LSTCKXN-12		16	12	0.100	2.54	0.062	1.57	-	-	1.269	32.23	-	-	500	2000	6.5	-	-	-	-
- 19AN	LSTCTXN-1		21	1	0.065	1.65	0.038	0.97	-	-	0.350	8.89	-	-	500	2000	2.5	-	-	-	-
- 20AN	LSTCTXN-3		21	3	0.065	1.65	0.038	0.97	-	-	0.552	14.02	-	-	500	2000	4.0	-	-	-	-
- 21AN	LSTCTXN-7		21	7	0.065	1.65	0.050	1.27	-	-	0.731	18.57	-	-	500	2000	5.5	-	-	-	-
- 22AN	LSTCTXN-12		21	12	0.065	1.65	0.063	1.60	-	-	0.964	24.49	-	-	500	2000	6.5	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS1SWU

MIL-DTL-24643C/30F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 2~30 conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Shield	Braid shield of coated or uncoated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/30)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LS1SWU-2	22 (ASTM B286)	2	0.048	1.22	0.038	0.97	0.430	10.92	0.455	11.56	189	17.20	500	3000	3.5	-	-	-	-	
-02UN	LS1SWU-14	22 (ASTM B286)	14	0.048	1.22	0.050	1.27	0.825	20.96	0.870	22.10	820	17.20	500	3000	5.5	-	-	-	-	
-03UN	LS1SWU-20	22 (ASTM B286)	20	0.048	1.22	0.050	1.27	0.970	24.64	1.030	26.16	1137	17.20	500	3000	6.5	-	-	-	-	
-04UN	LS1SWU-30	22 (ASTM B286)	30	0.048	1.22	0.063	1.60	1.135	28.83	1.200	30.48	1720	17.20	500	3000	7.5	-	-	-	-	

LS2SU

MIL-DTL-24643C/31F

Electrical cables, **Non-Watertight**, Temp. -20°C to 90°C, 3~61 pairs

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Twist	Two conductors cabled to form a pair
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/31)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LS2SU-3	22 (ASTM B286)	3	0.013	0.33	0.050	1.27	0.480	12.19	0.520	13.21	228	17.37	500	2000	3.5	-	-	-	-	
-02UN	LS2SU-7	22 (ASTM B286)	7	0.013	0.33	0.050	1.27	0.610	15.49	0.660	16.76	409	17.37	500	2000	4.5	-	-	-	-	
-03UN	LS2SU-10	22 (ASTM B286)	10	0.013	0.33	0.050	1.27	0.770	19.56	0.830	21.08	618	17.37	500	2000	5.0	-	-	-	-	
-04UN	LS2SU-14	22 (ASTM B286)	14	0.013	0.33	0.063	1.60	0.860	21.84	0.930	23.62	793	17.37	500	2000	6.0	-	-	-	-	
-05UN	LS2SU-19	22 (ASTM B286)	19	0.013	0.33	0.063	1.60	0.970	24.64	1.040	26.42	1064	17.37	500	2000	6.5	-	-	-	-	
-06UN	LS2SU-24	22 (ASTM B286)	24	0.013	0.33	0.063	1.60	1.120	28.45	1.210	30.73	1362	17.37	500	2000	7.5	-	-	-	-	
-07UN	LS2SU-30	22 (ASTM B286)	30	0.013	0.33	0.063	1.60	1.190	30.23	1.280	32.51	1604	17.37	500	2000	8.0	-	-	-	-	
-08UN	LS2SU-37	22 (ASTM B286)	37	0.013	0.33	0.063	1.60	1.290	32.77	1.380	35.05	1927	17.37	500	2000	8.5	-	-	-	-	
-09UN	LS2SU-44	22 (ASTM B286)	44	0.013	0.33	0.063	1.60	1.460	37.08	1.550	39.37	2341	17.37	500	2000	9.0	-	-	-	-	
-10UN	LS2SU-61	22 (ASTM B286)	61	0.013	0.33	0.075	1.91	1.660	42.16	1.740	44.20	3131	17.37	500	2000	10.0	-	-	-	-	



LS2SUS

MIL-DTL-24643C/31F

Electrical cables, **Non-Watertight**, Temp. -20°C to 90°C, 3~61 pairs

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Twist	Two conductors cabled to form a pair
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Double braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/31)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							40°C	50°C	40°C	50°C
									inch	mm	inch	mm									
																		DC or 60Hz	400Hz		
- 01UD	LS2SUS-3		22 (ASTM B286)	3	0.013	0.33	0.050	1.27	0.540	13.72	0.580	14.73	380	17.37	500	2000	7.0	-	-	-	-
- 02UD	LS2SUS-7		22 (ASTM B286)	7	0.013	0.33	0.050	1.27	0.670	17.02	0.720	18.29	617	17.37	500	2000	8.5	-	-	-	-
- 03UD	LS2SUS-10		22 (ASTM B286)	10	0.013	0.33	0.050	1.27	0.830	21.08	0.890	22.61	865	17.37	500	2000	11.0	-	-	-	-
- 04UD	LS2SUS-14		22 (ASTM B286)	14	0.013	0.33	0.063	1.60	0.920	23.37	0.990	25.15	1077	17.37	500	2000	12.0	-	-	-	-
- 05UD	LS2SUS-19		22 (ASTM B286)	19	0.013	0.33	0.063	1.60	1.030	26.16	1.100	27.94	1345	17.37	500	2000	13.5	-	-	-	-
- 06UD	LS2SUS-24		22 (ASTM B286)	24	0.013	0.33	0.063	1.60	1.180	29.97	1.270	32.26	1694	17.37	500	2000	15.5	-	-	-	-
- 07UD	LS2SUS-30		22 (ASTM B286)	30	0.013	0.33	0.063	1.60	1.250	31.75	1.340	34.04	1958	17.37	500	2000	16.0	-	-	-	-
- 08UD	LS2SUS-37		22 (ASTM B286)	37	0.013	0.33	0.063	1.60	1.350	34.29	1.440	36.58	2293	17.37	500	2000	17.5	-	-	-	-
- 09UD	LS2SUS-44		22 (ASTM B286)	44	0.013	0.33	0.063	1.60	1.520	38.61	1.610	40.89	2738	17.37	500	2000	19.5	-	-	-	-
- 10UD	LS2SUS-61		22 (ASTM B286)	61	0.013	0.33	0.075	1.91	1.720	43.69	1.800	45.72	3599	17.37	500	2000	22.0	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS2SWAU

MIL-DTL-24643C/32F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 3~61 Pairs

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material (one White & one Black)
Twist	Two conductors cabled to form a pair
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/32)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1 min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							40°C	50°C	40°C	50°C
									inch	mm	inch	mm									
- 01UN	LS2SWAU-3	22 (ASTM B286)	3	0.013	0.33	0.050	1.27	0.480	12.19	0.520	13.21	302	17.37	500	2000	3.5	-	-	-	-	
- 02UN	LS2SWAU-7	22 (ASTM B286)	7	0.013	0.33	0.050	1.27	0.610	15.49	0.660	16.76	563	17.37	500	2000	4.5	-	-	-	-	
- 03UN	LS2SWAU-10	22 (ASTM B286)	10	0.013	0.33	0.050	1.27	0.770	19.56	0.830	21.08	850	17.37	500	2000	5.0	-	-	-	-	
- 04UN	LS2SWAU-14	22 (ASTM B286)	14	0.013	0.33	0.063	1.60	0.860	21.84	0.930	23.62	1130	17.37	500	2000	6.0	-	-	-	-	
- 05UN	LS2SWAU-19	22 (ASTM B286)	19	0.013	0.33	0.063	1.60	0.970	24.64	1.040	26.42	1478	17.37	500	2000	6.5	-	-	-	-	
- 06UN	LS2SWAU-24	22 (ASTM B286)	24	0.013	0.33	0.063	1.60	1.120	28.45	1.210	30.73	1931	17.37	500	2000	7.5	-	-	-	-	
- 07UN	LS2SWAU-30	22 (ASTM B286)	30	0.013	0.33	0.063	1.60	1.190	30.23	1.280	32.51	2277	17.37	500	2000	8.0	-	-	-	-	
- 08UN	LS2SWAU-37	22 (ASTM B286)	37	0.013	0.33	0.063	1.60	1.290	32.77	1.380	35.05	2710	17.37	500	2000	8.5	-	-	-	-	
- 09UN	LS2SWAU-44	22 (ASTM B286)	44	0.013	0.33	0.063	1.60	1.460	37.08	1.550	39.37	3315	17.37	500	2000	9.0	-	-	-	-	
- 10UN	LS2SWAU-61	22 (ASTM B286)	61	0.013	0.33	0.075	1.91	1.660	42.16	1.740	44.20	4466	17.37	500	2000	10.0	-	-	-	-	



LS2SWU

MIL-DTL-24643C/33F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 1~61 Pairs

Conductor	Coated copper
Separator	Option
Insulation	Thermoset material (one White & one Black)
Twist	Two conductors cabled to form a pair
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/33)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LS2SWU-1		18 (Class B)	1	0.023	0.58	0.015	0.38	0.240	6.10	0.255	6.48	84	7.47	500	2000	2.0	-	-	-	-
- 02UN	LS2SWU-3		18 (Class B)	3	0.023	0.58	0.075	1.91	0.670	17.02	0.710	18.03	552	7.47	500	2000	4.0	-	-	-	-
- 03UN	LS2SWU-7		18 (Class B)	7	0.023	0.58	0.075	1.91	0.860	21.84	0.910	23.11	1012	7.47	500	2000	5.0	-	-	-	-
- 04UN	LS2SWU-12		18 (Class B)	12	0.023	0.58	0.088	2.24	1.130	28.70	1.200	30.48	1722	7.47	500	2000	6.5	-	-	-	-
- 05UN	LS2SWU-19		18 (Class B)	19	0.023	0.58	0.100	2.54	1.292	32.82	1.380	35.05	2488	7.47	500	2000	8.0	-	-	-	-
- 06UN	LS2SWU-24		18 (Class B)	24	0.023	0.58	0.100	2.54	1.500	38.10	1.590	40.39	3277	7.47	500	2000	9.0	-	-	-	-
- 07UN	LS2SWU-30		18 (Class B)	30	0.023	0.58	0.100	2.54	1.670	42.42	1.760	44.70	3993	7.47	500	2000	9.5	-	-	-	-
- 08UN	LS2SWU-37		18 (Class B)	37	0.023	0.58	0.125	3.18	1.785	45.34	1.870	47.50	4789	7.47	500	2000	10.5	-	-	-	-
- 09UN	LS2SWU-61		18 (Class 8)	61	0.023	0.58	0.125	3.18	2.205	56.01	2.300	58.42	7608	7.47	500	2000	13.5	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS3SU

MIL-DTL-24643C/35D

Electrical cables, **Non-Watertight**, Temp. -20°C to 90°C, 3-44 Triads

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material (one White & one Black & one Red)
Twist	Three conductors cabled to form a triads
Shield	Braid shield of coated or uncoated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-triad, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/35)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							40°C	50°C	40°C	50°C
									inch	mm	inch	mm									
- 01UN	LS3SU-3		18 (Class B)	3	0.013	0.33	0.040	1.02	0.650	16.51	0.700	17.78	-	7.06	500	2000	4.5	-	-	-	-
- 02UN	LS3SU-7		18 (Class B)	7	0.013	0.33	0.050	1.27	0.840	21.34	0.910	23.11	-	7.06	500	2000	6.5	-	-	-	-
- 03UN	LS3SU-10		18 (Class B)	10	0.013	0.33	0.050	1.27	1.100	27.94	1.190	30.23	-	7.06	500	2000	7.5	-	-	-	-
- 04UN	LS3SU-14		18 (Class B)	14	0.013	0.33	0.050	1.27	1.200	30.48	1.290	32.77	-	7.06	500	2000	8.0	-	-	-	-
- 05UN	LS3SU-19		18 (Class B)	19	0.013	0.33	0.050	1.27	1.340	34.04	1.430	36.32	-	7.06	500	2000	9.0	-	-	-	-
- 06UN	LS3SU-24		18 (Class B)	24	0.013	0.33	0.060	1.52	1.580	40.13	1.670	42.42	-	7.06	500	2000	10.5	-	-	-	-
- 07UN	LS3SU-30		18 (Class B)	30	0.013	0.33	0.060	1.52	1.680	42.67	1.770	44.96	-	7.06	500	2000	11.0	-	-	-	-
- 08UN	LS3SU-37		18 (Class B)	37	0.013	0.33	0.060	1.52	1.840	46.74	1.930	49.02	-	7.06	500	2000	12.0	-	-	-	-
- 09UN	LS3SU-44		18 (Class B)	44	0.013	0.33	0.060	1.52	2.060	52.32	2.150	54.61	-	7.06	500	2000	13.0	-	-	-	-



LS3SUS



MIL-DTL-24643C/35D

Electrical cables, **Non-Watertight**, Temp. -20°C to 90°C, 3~44 Triads

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material (one White & one Black & one Red)
Twist	Three conductors cabled to form a triads
Shield	Braid shield of coated or uncoated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-triad, Filler may be used as necessary
Shield	Double Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/35)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UD	LS3SUS-3		18 (Class B)	3	0.013	0.33	0.040	1.02	0.710	18.03	0.760	19.30	-	7.06	500	2000	9.5	-	-	-	-
- 02UD	LS3SUS-7		18 (Class B)	7	0.013	0.33	0.050	1.27	0.900	22.86	0.970	24.64	-	7.06	500	2000	12.0	-	-	-	-
- 03UD	LS3SUS-10		18 (Class B)	10	0.013	0.33	0.050	1.27	1.160	29.46	1.250	31.75	-	7.06	500	2000	15.0	-	-	-	-
- 04UD	LS3SUS-14		18 (Class B)	14	0.013	0.33	0.050	1.27	1.260	32.00	1.350	34.29	-	7.06	500	2000	16.5	-	-	-	-
- 05UD	LS3SUS-19		18 (Class B)	19	0.013	0.33	0.050	1.27	1.400	35.56	1.490	37.85	-	7.06	500	2000	18.0	-	-	-	-
- 06UD	LS3SUS-24		18 (Class B)	24	0.013	0.33	0.060	1.52	1.640	41.66	1.730	43.94	-	7.06	500	2000	21.0	-	-	-	-
- 07UD	LS3SUS-30		18 (Class B)	30	0.013	0.33	0.060	1.52	1.740	44.20	1.830	46.48	-	7.06	500	2000	22.0	-	-	-	-
- 08UD	LS3SUS-37		18 (Class B)	37	0.013	0.33	0.060	1.52	1.900	48.26	1.990	50.55	-	7.06	500	2000	24.0	-	-	-	-
- 09UD	LS3SUS-44		18 (Class B)	44	0.013	0.33	0.060	1.52	2.120	53.85	2.210	56.13	-	7.06	500	2000	26.5	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS3SWU

MIL-DTL-24643C/36F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 3~44 Triads

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material (one White & one Black & one Red)
Twist	Three conductors cabled to form a triads
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-triad, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/36)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (V.Ω.1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							40°C	50°C	40°C	50°C
									inch	mm	inch	mm									
- 01UN	LS3SWU-3		18 (Class B)	3	0.023	0.58	0.040	1.02	0.610	15.49	0.655	16.64	503	7.06	500	2000	4.5	-	-	-	-
- 02UN	LS3SWU-7		18 (Class B)	7	0.023	0.58	0.040	1.02	0.880	22.35	0.940	23.88	1091	7.06	500	2000	6.0	-	-	-	-
- 03UN	LS3SWU-10		18 (Class B)	10	0.023	0.58	0.050	1.27	1.100	27.94	1.180	29.97	1633	7.06	500	2000	7.5	-	-	-	-
- 04UN	LS3SWU-14		18 (Class B)	14	0.023	0.58	0.050	1.27	1.200	30.48	1.280	32.51	2082	7.06	500	2000	8.5	-	-	-	-
- 05UN	LS3SWU-19		18 (Class B)	19	0.023	0.58	0.050	1.27	1.370	34.80	1.450	36.83	2702	7.06	500	2000	9.0	-	-	-	-
- 06UN	LS3SWU-24		18 (Class B)	24	0.023	0.58	0.050	1.27	1.640	41.66	1.760	44.70	3698	7.06	500	2000	10.5	-	-	-	-
- 07UN	LS3SWU-30		18 (Class B)	30	0.023	0.58	0.050	1.27	1.760	44.70	1.860	47.24	4424	7.06	500	2000	11.0	-	-	-	-
- 08UN	LS3SWU-37		18 (Class B)	37	0.023	0.58	0.060	1.52	1.890	48.01	1.940	49.28	5257	7.06	500	2000	12.0	-	-	-	-
- 09UN	LS3SWU-44		18 (Class B)	44	0.023	0.58	0.060	1.52	2.140	54.36	2.240	56.90	6459	7.06	500	2000	13.0	-	-	-	-



LS3SWUS



MIL-DTL-24643C/36F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 3~44 Triads

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material (one White & one Black & one Red)
Twist	Three conductors cabled to form a triads
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-triad, Filler may be used as necessary
Shield	Double Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/36)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (V.Ω1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							40°C	50°C	40°C	50°C
									inch	mm	inch	mm									
- 01UD	LS3SWUS-3		18 (Class B)	3	0.023	0.58	0.040	1.02	0.675	17.15	0.710	18.03	-	7.06	500	2000	8.5	-	-	-	-
- 02UD	LS3SWUS-7		18 (Class B)	7	0.023	0.58	0.040	1.02	0.940	23.88	1.000	25.40	-	7.06	500	2000	12.0	-	-	-	-
- 03UD	LS3SWUS-10		18 (Class B)	10	0.023	0.58	0.050	1.27	1.160	29.46	1.240	31.50	-	7.06	500	2000	15.0	-	-	-	-
- 04UD	LS3SWUS-14		18 (Class B)	14	0.023	0.58	0.050	1.27	1.260	32.00	1.340	34.04	-	7.06	500	2000	16.0	-	-	-	-
- 05UD	LS3SWUS-19		18 (Class B)	19	0.023	0.58	0.050	1.27	1.430	36.32	1.510	38.35	-	7.06	500	2000	18.0	-	-	-	-
- 06UD	LS3SWUS-24		18 (Class B)	24	0.023	0.58	0.050	1.27	1.700	43.18	1.820	46.23	-	7.06	500	2000	21.5	-	-	-	-
- 07UD	LS3SWUS-30		18 (Class B)	30	0.023	0.58	0.050	1.27	1.820	46.23	1.920	48.77	-	7.06	500	2000	23.0	-	-	-	-
- 08UD	LS3SWUS-37		18 (Class B)	37	0.023	0.58	0.060	1.52	1.950	49.53	2.050	52.07	-	7.06	500	2000	25.0	-	-	-	-
- 09UD	LS3SWUS-44		18 (Class B)	44	0.023	0.58	0.060	1.52	2.200	55.88	2.300	58.42	-	7.06	500	2000	28.0	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LSECM

MIL-DTL-24643C/38F

Electrical cables, 600V, **Watertight**, Temp. -20°C to 90°C, 8 pair and 8 groups of 7C per group

Component 1	8 shielded pair
Conductor	Coated copper
Separator	Option
Insulation	Thermoset material (one White & one Black)
Twist	Two conductors cabled to form a pair
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Component 2	8 group (7 conductors in each)
Conductor	Coated or uncoated copper
Insulation	Thermoset material (five Black & two White)
Grouping	7 conductors cabled to form a group of 7
Group insulation	Two shielded polyester tapes
Assembly	
Cabling	Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/38)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (V/Ω/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LS3SU-3	20 (ASTM B286)		8P	0.023	0.58	0.075	1.91	1.290	32.77	1.370	34.80	-	11.03	2000	2000	8.5	-	-	-	-
		18 (Class B)		56C	0.008	0.20												7.47	2000	2000	-



LS2SJ, LS3SJ & LS4SJ

MIL-DTL-24643C/43F

Electrical cables, 600V, **Non-Watertight**, Temp. -20°C to 90°C, 2-4 Conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Identification	Standard identification code by Method 3
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/43)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UO	LS2SJ-22		22(ASTM B286)	2	0.016	0.41	0.035	0.89	0.261	6.63	0.275	6.99	71	16.54	500	1200	1.0	3	2	-	-
-02UO	LS2SJ-20		20(ASTM B286)	2	0.016	0.41	0.035	0.89	0.273	6.93	0.290	7.37	82	10.16	500	1200	1.5	6	5	-	-
-03UO	LS2SJ-18		18(ASTM B286)	2	0.016	0.41	0.035	0.89	0.295	7.49	0.310	7.87	97	6.47	500	1200	1.5	10	8	-	-
-04UO	LS2SJ-16		16(ASTM B286)	2	0.016	0.41	0.035	0.89	0.309	7.85	0.325	8.26	107	5.02	500	1200	2.0	13	11	-	-
-05UO	LS2SJ-14		14(ASTM B286)	2	0.016	0.41	0.035	0.89	0.337	8.56	0.350	8.89	133	3.17	500	1200	2.0	16	14	16	14
-06UO	LS2SJ-12		12 (Class B)	2	0.024	0.61	0.035	0.89	0.417	10.59	0.430	10.92	200	1.72	500	1200	2.0	23	17	16	14
-07UO	LS2SJ-11		10 (Class B)	2	0.025	0.64	0.035	0.89	0.447	11.35	0.460	11.68	244	1.085	500	1200	2.5	31	25	16	14
-08UO	LS2SJ-9		9 (Class B)	2	0.031	0.79	0.035	0.89	0.525	13.34	0.545	13.84	325	0.86	500	1200	2.5	42	35	42	35
-09UO	LS2SJ-7		7 (Class B)	2	0.032	0.81	0.035	0.89	0.600	15.24	0.615	15.62	445	0.54	500	1200	2.5	56	49	56	49
-10UO	LS3SJ-22		22(ASTM B286)	3	0.016	0.41	0.035	0.89	0.271	6.88	0.285	7.24	80	16.54	500	1200	1.5	3	2	3	2
-11UO	LS3SJ-20		20(ASTM B286)	3	0.016	0.41	0.035	0.89	0.284	7.21	0.300	7.62	95	10.16	500	1200	1.5	6	5	6	5
-12UO	LS3SJ-18		18(ASTM B286)	3	0.016	0.41	0.035	0.89	0.308	7.82	0.325	8.26	113	6.47	500	1200	2.0	9	7	9	7
-13UO	LS3SJ-16		16(ASTM B286)	3	0.016	0.41	0.035	0.89	0.323	8.20	0.340	8.64	127	5.02	500	1200	2.0	11	10	11	10
-14UO	LS3SJ-14		14(ASTM B286)	3	0.016	0.41	0.035	0.89	0.353	8.97	0.370	9.40	161	3.17	500	1200	2.0	14	12	14	12
-15UO	LS3SJ-12		12 (Class B)	3	0.024	0.61	0.035	0.89	0.440	11.18	0.455	11.56	246	1.72	500	1200	2.5	21	15	21	15
-16UO	LS3SJ-9		9 (Class B)	3	0.031	0.79	0.035	0.89	0.594	15.09	0.620	15.75	447	0.86	500	1200	3.5	33	27	33	27
-17UO	LS4SJ-20		20(ASTM B286)	4	0.016	0.41	0.035	0.89	0.303	7.70	0.320	8.13	116	10.16	500	1200	2.0	6	5	-	-
-18UO	LS4SJ-16		16(ASTM B286)	4	0.016	0.41	0.035	0.89	0.346	8.79	0.360	9.14	158	5.02	500	1200	2.5	9	7	-	-
-19UO	LS4SJ-14		14(ASTM B286)	4	0.016	0.41	0.035	0.89	0.380	9.65	0.395	10.03	201	3.17	500	1200	2.5	11	9	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS2WAU

MIL-DTL-24643C/46F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 40 Pairs

Conductor	Tin-Coated copper
Separator	Option
Insulation	Thermoset material
Twist	Two conductors cabled to form a pairs
Identification	Telephone identification code shall be applied by Method 3
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/46)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UO	LS2WAU-40	22 (ASTM B286)	40	0.024	0.61	0.060	1.52	1.320	33.53	1.370	34.80	-	17.71	500	2500	5.0	-	-	-	-	

LS1SMWU

MIL-DTL-24643C/47D

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 70 Conductors

Conductor	Tin-Coated copper
Separator	Option
Insulation	Thermoset material
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/47)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LS1SMWU-70	22 (ASTM B286)	70	0.030	0.76	0.050	1.27	1.465	37.21	1.555	39.50	-	17.71	500	5000	10.0	-	-	-	-	



LSSRW, LSDRW & LSTRW

MIL-DTL-24643C/53F

Electrical cables, 3000V, **Watertight**, Temp. -20°C to 90°C, 1~3 Conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/53)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSSRW	14 (Class B)		1	0.080	2.03	0.050	1.27	-	-	0.400	10.16	-	2.69	9500	8000	3.0	32	30	-	-
- 02UN	LSDRW	14 (Class B)		2	0.080	2.03	0.050	1.27	-	-	0.670	17.02	-	2.75	9500	8000	3.0	26	24	-	-
- 03UN	LSTRW	14 (Class B)		3	0.080	2.03	0.050	1.27	-	-	0.710	18.03	-	2.75	9500	8000	4.5	24	22	-	-

LS8NW

MIL-DTL-24643C/54F

Electrical cables, **Non-Watertight**, Temp. -20°C to 90°C, 8 Conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/54)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LS8NW-6	12 (Class B)		8	0.030	0.76	0.040	1.02	-	-	0.670	17.02	-	1.72	4200	4000	5.5	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS2SWL

MIL-DTL-24643C/56F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 7 Pairs

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Thermoset material (one White & one Black)
Twist	Two conductors cabled to form a pairs
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/56)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UN	LS2SWL-7		16 (Class B)	7	0.019	0.48	0.075	1.91	0.860	21.84	0.910	23.11	-	4.66	1000	2000	7.3	-	-	-	-

LS2UW

MIL-DTL-24643C/57F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 42 Pairs

Conductor	Coated copper
Separator	Option
Insulation	Thermoset material
Identification	Telephone identification code shall be applied by Method 3
Twist	Two conductors cabled to form a pairs
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/57)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
-01UO	LS2UW-42		26 (ASTM B286)	42	0.010	0.25	0.065	1.65	0.750	19.05	0.790	20.07	-	45.19	500	2000	6.5	-	-	-	-



LS2UWS

MIL-DTL-24643C/57F

Electrical cables, **Watertight**, Temp. -20°C to 90°C, 42 Pairs

Conductor	Coated copper
Separator	Option
Insulation	Thermoset material
Identification	Telephone identification code shall be applied by Method 3
Twist	Two conductors cabled to form a pairs
Cabling	On multi-pair, Filler may be used as necessary
Shield	Double braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/57)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 03UD	LS2UWS-42	26 (ASTM B286)		42	0.010	0.25	0.065	1.65	0.785	19.94	0.825	20.96	-	45.19	500	2000	10.0	-	-	-	-

LSYSGU

MIL-DTL-24643C/63A

Electrical cables, 1000V, **Watertight with Circuit integrity**, Temp. -20°C to 105°C, 7 conductor

Conductor	Coated or uncoated copper
Separator	Option
Insulation	Silicon rubber or silicin rubber-glass tape
Identification	According to MIL-DTL-24643C/63A
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/63)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSYSGU	16		7	-	-	0.040	1.02	-	-	0.535	13.59	-	4.30	100	3000	-	-	-	-	
- 02UN	LSYSGU	14		7	-	-	0.04	1.02	-	-	0.58	14.73	-	2.68	100	3000	-	-	-	-	
- 03UN	LSYSGU	12		7	-	-	0.04	1.02	-	-	0.64	16.26	-	1.90	100	3000	-	-	-	-	
- 04UN	LSYSGU	10		7	-	-	0.04	1.02	-	-	0.73	18.54	-	1.125	100	3000	-	-	-	-	
- 05UN	LSYSGU	8		7	-	-	0.05	1.27	-	-	1	25.40	-	0.780	100	5000	-	-	-	-	
- 06UN	LSYSGU	4		7	-	-	0.05	1.27	-	-	1.17	29.72	-	0.287	100	5000	-	-	-	-	
- 07UN	LSYSGU	2		7	-	-	0.06	1.52	-	-	1.31	33.27	-	0.203	100	5000	-	-	-	-	
- 08UN	LSYSGU	1		7	-	-	0.06	1.52	-	-	1.45	36.83	-	0.145	100	5000	-	-	-	-	
- 09UN	LSYSGU	0		7	-	-	0.06	1.52	-	-	1.6	40.64	-	0.120	100	5000	-	-	-	-	
- 10UN	LSYSGU	00		7	-	-	0.065	1.65	-	-	1.78	45.21	-	0.0888	100	5000	-	-	-	-	
- 11UN	LSYSGU	000		7	-	-	0.065	1.65	-	-	1.88	47.75	-	0.0674	100	5000	-	-	-	-	

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LS2OW

MIL-DTL-24643C/66A

Electrical cables, 1000V, **Watertight with Circuit integrity**, Temp. -20°C to 105°C, Two conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material, extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1, 3 or 5
Cabbling	On multi-pair, Filler may be used as necessary
Shield	Aluminum foil/polyester tape/aluminum foil with braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/66)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz	400Hz		
									inch	mm	inch	mm							40°C	50°C	40°C
- 01UO	LS2OW-3	16 (Class B)	2	0.018	0.46	0.027	0.69	0.345	8.76	0.370	9.40	155	4.30	500	3000	-	13	12	-	-	
- 02UO	LS2OW-4	14 (Class B)	2	0.018	0.46	0.028	0.71	0.366	9.30	0.392	9.96	189	2.68	500	3000	-	22	20	-	-	
- 03UO	LS2OW-9	10 (Class B)	2	0.018	0.46	0.036	0.91	0.466	11.84	0.499	12.67	321	1.08	500	3000	-	44	41	-	-	
- 04UO	LS2OW-14	9 (Class B)	2	0.025	0.64	0.040	1.02	0.639	16.23	0.686	17.42	496	0.859	500	5000	-	60	55	-	-	
- 05UO	LS2OW-23	7 (Class B)	2	0.025	0.64	0.050	1.27	0.743	18.87	0.797	20.24	732	0.543	500	5000	-	78	72	-	-	
- 06UO	LS2OW-50	3 (Class C)	2	0.035	0.89	0.050	1.27	0.894	22.71	0.959	24.36	1313	0.210	200	5000	-	126	116	-	-	
- 07UO	LS2OW-75	1 (Class C)	2	0.035	0.89	0.050	1.27	1.033	26.24	1.108	28.14	1825	0.134	175	5000	-	168	155	-	-	
- 08UO	LS2OW-100	0 (Class D)	2	0.035	0.89	0.060	1.52	1.149	29.18	1.232	31.29	2189	0.106	160	5000	-	199	183	-	-	
- 09UO	LS2OW-200	0000 (Class D)	2	0.050	1.27	0.060	1.52	1.519	38.58	1.630	41.40	3946	0.053	125	5000	-	308	284	-	-	

LS3OW

MIL-DTL-24643C/67A

Electrical cables, 1000V, **Watertight with Circuit integrity**, Temp. -20°C to 105°C, Three conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material, extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1, 3 or 5
Cabbling	On multi-pair, Filler may be used as necessary
Shield	Aluminum foil/polyester tape/aluminum foil with braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/67)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz	400Hz		
									inch	mm	inch	mm							40°C	50°C	40°C
- 01UO	LS3OW-3	16 (Class B)	3	0.018	0.46	0.027	0.69	0.367	9.32	0.394	10.01	181	4.30	500	3000	-	11	12	-	-	
- 02UO	LS3OW-4	14 (Class B)	3	0.018	0.46	0.028	0.71	0.390	9.91	0.418	10.62	224	2.68	500	3000	-	18	20	-	-	
- 03UO	LS3OW-9	10 (Class B)	3	0.018	0.46	0.036	0.91	0.497	12.62	0.533	13.54	392	1.08	500	3000	-	39	41	-	-	
- 04UO	LS3OW-14	9 (Class B)	3	0.018	0.46	0.040	1.02	0.684	17.37	0.733	18.62	596	0.859	500	5000	-	51	55	-	-	
- 05UO	LS3OW-23	7 (Class B)	3	0.030	0.76	0.050	1.27	0.769	19.53	0.853	21.67	868	0.543	500	5000	-	69	72	-	-	
- 06UO	LS3OW-50	3 (Class C)	3	0.030	0.76	0.050	1.27	0.957	24.31	1.027	26.09	1675	0.210	200	5000	-	110	116	-	-	
- 07UO	LS3OW-75	1 (Class C)	3	0.035	0.89	0.050	1.27	1.107	28.12	1.187	30.15	2335	0.134	175	5000	-	148	136	-	-	
- 08UO	LS3OW-100	0 (Class D)	3	0.035	0.89	0.060	1.52	1.231	31.27	1.321	33.55	2822	0.106	160	5000	-	174	160	-	-	
- 09UO	LS3OW-200	0000 (Class D)	3	0.050	1.27	0.060	1.52	1.630	41.40	1.748	44.40	5160	0.053	125	5000	-	271	250	-	-	
- 10UO	LS3OW-300	300MCM (Class D)	3	0.050	1.27	0.075	1.91	1.916	48.67	2.055	52.20	7149	0.038	110	5000	-	348	320	-	-	
- 11UO	LS3OW-400 400 (127)		3	0.050	1.27	0.075	1.91	2.190	55.63	2.349	59.66	9809	0.027	100	5000	-	435	400	-	-	



LS40W

MIL-DTL-24643C/68A

Electrical cables, 1000V, **Watertight with Circuit integrity**, Temp. -20°C to 105°C, Four conductor

Conductor	Coated or uncoated copper
Insulation	Thermoset material, extruded or taped
Glass braid	Option
Covering	Option
Identification	Standard identification code by Method 1, 3 or 5
Cablings	On multi-pair, Filler may be used as necessary
Shield	Aluminum foil/polyester tape/aluminum foil with braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24643/68)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)					
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz	400Hz	40°C	50°C	40°C	50°C
									inch	mm	inch	mm											
-01UO	LS40W-3		16 (Class B)	4	0.018	0.46	0.027	0.69	0.412	10.46	0.442	11.23	232	4.30	500	3000	-	11	10	-	-		
-02UO	LS40W-4		14 (Class B)	4	0.018	0.46	0.028	0.71	0.437	11.10	0.469	11.91	282	2.68	500	3000	-	18	17	-	-		
-03UO	LS40W-9		10 (Class B)	4	0.018	0.46	0.036	0.91	0.559	14.20	0.600	15.24	504	1.08	500	3000	-	39	36	-	-		
-04UO	LS40W-14		9 (Class B)	4	0.018	0.46	0.040	1.02	0.772	19.61	0.828	21.03	772	0.859	500	5000	-	51	55	-	-		
-05UO	LS40W-23		7 (Class B)	4	0.030	0.76	0.050	1.27	0.900	22.86	0.965	24.51	1187	0.543	500	5000	-	69	64	-	-		
-06UO	LS40W-50		3 (Class C)	4	0.030	0.76	0.050	1.27	1.084	27.53	1.163	29.54	2153	0.210	200	5000	-	110	101	-	-		
-07UO	LS40W-75		1 (Class C)	4	0.035	0.89	0.050	1.27	1.254	31.85	1.345	34.16	3038	0.134	175	5000	-	148	136	-	-		
-08UO	LS40W-100		0 (Class D)	4	0.035	0.89	0.060	1.52	1.396	35.46	1.498	38.05	3713	0.106	160	5000	-	174	160	-	-		
-085UO	LS40W-150		000 (Class D)	4	0.050	1.27	0.060	1.52	1.600	40.64	1.725	43.82	5457	0.067	135	5000	-	235	216	-	-		
-09UO	LS40W-200		0000 (Class D)	4	0.050	1.27	0.060	1.52	1.850	46.99	1.984	50.39	6944	0.053	125	5000	-	271	250	-	-		

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

LSSCF

MIL-DTL-24643C/71A

Electrical cables, 1000V, **Non-watertight**, Temp. -20°C to 125°C, Single conductor

Conductor	Coated copper
Insulation	Flexible extruded silicon insulation
Jacket	Flexible Cross-linked polyolefin

Military part No. (24643/71)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (1/Ω1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSSCF-3	16 (Class K)	1	0.110	2.79	0.012	0.30	0.135	3.43	0.150	3.81	-	4.624	500	5000	-	-	-	-	-	
- 02UN	LSSCF-4	14 (Class K)	1	0.155	3.94	0.012	0.30	0.180	4.57	0.195	4.95	-	2.880	500	5000	-	-	-	-	-	
- 03UN	LSSCF-10	10 (Class K)	1	0.195	4.95	0.017	0.43	0.230	5.84	0.245	6.22	-	1.140	500	5000	-	-	-	-	-	
- 04UN	LSSCF-16	8 (Class K)	1	0.270	6.86	0.022	0.56	0.320	8.13	0.340	8.64	-	0.729	500	5000	-	-	-	-	-	
- 05UN	LSSCF-26	6 (Class K)	1	0.315	8.00	0.022	0.56	0.365	9.27	0.385	9.78	-	0.459	250	5000	-	-	-	-	-	
- 06UN	LSSCF-42	4 (Class K)	1	0.370	9.40	0.032	0.81	0.440	11.18	0.460	11.68	-	0.289	200	5000	-	-	-	-	-	
- 07UN	LSSCF-66	2 (Class K)	1	0.435	11.05	0.042	1.07	0.525	13.34	0.555	14.10	-	0.184	150	5000	-	-	-	-	-	
- 08UN	LSSCF-105	1/0 (Class K)	1	0.555	14.10	0.047	1.19	0.655	16.64	0.685	17.40	-	0.115	125	5000	-	-	-	-	-	
- 09UN	LSSCF-133	2/0 (Class K)	1	0.605	15.37	0.047	1.19	0.705	17.91	0.735	18.67	-	0.0922	100	5000	-	-	-	-	-	
- 10UN	LSSCF-165	3/0 (Class K)	1	0.680	17.27	0.047	1.19	0.780	19.81	0.820	20.83	-	0.0731	100	5000	-	-	-	-	-	
- 11UN	LSSCF-210	4/0 (Class K)	1	0.730	18.54	0.047	1.19	0.830	21.08	0.870	22.10	-	0.0580	90	5000	-	-	-	-	-	
- 12UN	LSSCF-250	250MCM (Class K)	1	0.830	21.08	0.047	1.19	0.930	23.62	0.970	24.64	-	0.0491	80	5000	-	-	-	-	-	
- 13UN	LSSCF-300	300MCM (Class K)	1	0.860	21.84	0.047	1.19	0.960	24.38	1.010	25.65	-	0.0409	75	5000	-	-	-	-	-	
- 14UN	LSSCF-350	350MCM (Class K)	1	0.890	22.61	0.047	1.19	0.990	25.15	1.040	26.42	-	0.0354	75	5000	-	-	-	-	-	
- 1 5UN	LSSCF-400	400MCM (Class K)	1	0.960	24.38	0.047	1.19	1.065	27.05	1.115	28.32	-	0.0310	70	5000	-	-	-	-	-	

LSTCF

MIL-DTL-24643C/73A

Electrical cables, 1000V, **Non-watertight**, Temp. -20°C to 90°C, Three conductor

Conductor	Coated copper
Separator	Option
Insulation	Thermoset material
Identification	Circuit identification by solid-colored insulation or printed marking on the wire
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24643/73)	Type and size	Conductor size		Number of conductors	Insulation thk. Min. avg.		Jacket wall thk. Min. avg.		Overall diameter				Cable weight (Approx.) kg/km	Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (1/Ω1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
		Navy std.	AWG		inch	mm	inch	mm	Minimum		Maximum							DC or 60Hz		400Hz	
									inch	mm	inch	mm						40°C	50°C	40°C	50°C
- 01UN	LSTCF-200	0000	3	0.055	1.40	0.075	1.91	1.700	43.18	1.800	45.72	-	0.05	500	3000	9.0	-	-	-	-	



MIL-DTL-24640C

Type	Detail specification sheet No.	Description
DX, DXWB	MIL-DTL-24640C / 1E	Two conductor, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
TX, TXWB	MIL-DTL-24640C / 2E	Three conductor, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
FX, FXWB	MIL-DTL-24640C / 3E	Four conductor, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
TTX, TTXWB	MIL-DTL-24640C / 4E	Twisted pairs, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
TTXS, TTXSW	MIL-DTL-24640C / 5E	Twisted shielded pairs, 20AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
TTXSO, TTXSOW	MIL-DTL-24640C / 5E	Twisted shielded pairs, 20AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
2XAO, 2XAOW	MIL-DTL-24640C / 6E	Twisted pairs, 22AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
1XMSO, 1XMSOW	MIL-DTL-24640C / 7E	Multi shielded conductor, 22AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
MXO, MXOW	MIL-DTL-24640C / 8E	Multi conductor, 20AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
2XS, 2XSW	MIL-DTL-24640C / 9E	Twisted shielded pair, 22AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
2XSO, 2XSOW	MIL-DTL-24640C / 9E	Twisted shielded pair, 22AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
MXSO, MXSOW	MIL-DTL-24640C / 10F	Multi conductor, 16AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
3XS, 3XSW	MIL-DTL-24640C / 11E	Twisted shielded triad, 18AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Cross-linked polyolefin jacket
2XO, 2XOW	MIL-DTL-24640C / 12E	Twisted pairs, 26AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
2XSXO, 2XSXOW	MIL-DTL-24640C / 13E	Twisted shielded pair, 26AWG, Lightweight, Watertight or Non-watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
1XSOW	MIL-DTL-24640C / 14E	Multi shielded conductor, 22AWG, Lightweight, Watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
2XSAW	MIL-DTL-24640C / 15E	Twisted shielded pair, 22AWG, Lightweight, Watertight, Component wire 81044/12, Cross-linked polyolefin jacket
2XSAOW	MIL-DTL-24640C / 15E	Twisted shielded pair, 22AWG, Lightweight, Watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
2XSAWA	MIL-DTL-24640C / 15E	Twisted shielded pair, 22AWG, Lightweight, Watertight, Component wire 81044/12, Cross-linked polyolefin jacket, Metal braid armour
2XSW	MIL-DTL-24640C / 16E	Twisted shielded pair, 18AWG, Lightweight, Watertight, Component wire 81044/12, Cross-linked polyolefin jacket
2XSOW	MIL-DTL-24640C / 16E	Twisted shielded pair, 18AWG, Lightweight, Watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
2XOW	MIL-DTL-24640C / 17E	Twisted pair, 26AWG, Lightweight, Watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
3XSW	MIL-DTL-24640C / 18E	Twisted shielded triad, 18AWG, Lightweight, Watertight, Component wire 81044/12, Cross-linked polyolefin jacket
3XSOW	MIL-DTL-24640C / 18E	Twisted shielded triad, 18AWG, Lightweight, Watertight, Component wire 81044/12, Braid shield, Cross-linked polyolefin jacket
DXW	MIL-DTL-24640C / 19E	Two conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Cross-linked polyolefin jacket
DXOW	MIL-DTL-24640C / 19E	Two conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Braid shield, Cross-linked polyolefin jacket
TXW	MIL-DTL-24640C / 20E	Three conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Cross-linked polyolefin jacket
TXOW	MIL-DTL-24640C / 20E	Three conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Braid shield, Cross-linked polyolefin jacket
FXW	MIL-DTL-24640C / 21E	Four conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Cross-linked polyolefin jacket
FXOW	MIL-DTL-24640C / 21E	Four conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Braid shield, Cross-linked polyolefin jacket
7XW	MIL-DTL-24640C / 22E	Seven conductor, Lightweight, Watertight with Circuir integrity, Component wire 81381, Braid shield, Cross-linked polyolefin jacket
MXCW	MIL-DTL-24640C / 23E	Multi conductor, 18AWG, Lightweight, Watertight with Circuir integrity, Component wire 81381, Cross-linked polyolefin jacket
MXCOW	MIL-DTL-24640C / 23E	Multi conductor, 18AWG, Lightweight, Watertight with Circuir integrity, Component wire 81381, Braid shield, Cross-linked polyolefin jacket
TTXW	MIL-DTL-24640C / 24E	Twisted pair, 22AWG, Lightweight, Watertight with Circuir integrity, Component wire 81381, Cross-linked polyolefin jacket
TTXOW	MIL-DTL-24640C / 24E	Twisted pair, 22AWG, Lightweight, Watertight with Circuir integrity, Component wire 81381, Braid shield, Cross-linked polyolefin jacket

DX, DXWB

MIL-DTL-24640C/1E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Two Conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Identification	Standard identification code by Method 1 or 3
Cabbling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/1)	Type and size	Conductor size	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
						Minimum		Maximum								DC or 60Hz		400Hz	
		AWG		inch	mm	inch	mm	inch	mm	pound/1000feet	kg/km					40°C	50°C	40°C	50°C
- 01UN	DX-3	16	2	0.031	0.79	0.223	5.66	0.241	6.12	39.4	58.6	4.98	2500	2000	2.0	13	12	13	12
- 02UN	DX-4	14	2	0.034	0.86	0.266	6.76	0.286	7.26	56.8	84.5	3.18	2500	2000	2.5	22	20	22	20
- 03UN	DXWB-3	16	2	0.031	0.79	0.233	5.92	0.251	6.38	45.4	67.5	4.33	2500	2000	2.0	13	12	13	12
- 04UN	DXWB-4	14	2	0.034	0.86	0.276	7.01	0.296	7.52	67.8	100.9	2.78	2500	2000	2.5	22	20	22	20

TX, TXWB

MIL-DTL-24640C/2E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Three Conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Identification	Standard identification code by Method 1 or 3
Cabbling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/2)	Type and size	Conductor size	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
						Minimum		Maximum								DC or 60Hz		400Hz	
		AWG		inch	mm	inch	mm	inch	mm	pound/1000feet	kg/km					40°C	50°C	40°C	50°C
- 01UN	TX-3	16	3	0.034	0.86	0.243	6.17	0.261	6.63	51.6	76.8	4.98	2500	2000	2.0	11	10	11	10
- 02UN	TX-4	14	3	0.038	0.97	0.288	7.32	0.310	7.87	75.6	112.5	3.18	2500	2000	2.5	18	17	18	17
- 03UN	TXWB-3	16	3	0.034	0.86	0.255	6.48	0.265	6.73	60.2	89.6	4.33	2500	2000	2.0	11	10	11	10
- 04UN	TXWB-4	14	3	0.038	0.97	0.300	7.62	0.320	8.13	84.0	125.0	2.78	2500	2000	2.5	18	17	18	17

FX, FXWB

MIL-DTL-24640C/3E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Four Conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/3)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	FX-3	16	4	0.034	0.86	0.262	6.65	0.282	7.16	63.0	93.7	4.98	2500	2000	2.5	11	10	11	10
- 02UN	FX-4	14	4	0.034	0.86	0.311	7.90	0.335	8.51	92.6	137.8	3.18	2500	2000	3.0	18	17	18	17
- 03UN	FXWB-3	16	4	0.032	0.81	0.275	6.99	0.300	7.62	60.2	89.6	4.33	2500	2000	2.5	11	10	11	10
- 04UN	FXWB-4	14	4	0.035	0.89	0.325	8.26	0.350	8.89	84.0	125.0	2.78	2500	2000	3.0	18	17	18	17

TTX, TTXWB

MIL-DTL-24640C/4E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Identification	Standard identification code by Method 6
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/4)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	TTX-3	20	3	0.038	0.97	0.296	7.52	0.320	8.13	62.1	92.4	10.95	2500	2000	2.5	5/4.0	4/3.0	5/4.0	4/3.0
- 02UN	TTX-15	20	15	0.044	1.12	0.549	13.94	0.591	15.01	221.0	328.8	10.95	2500	2000	5.0	5/0.6	4/0.5	5/0.6	4/0.5
- 03UN	TTXWB-3	20	3	0.038	0.97	0.310	7.87	0.330	8.38	69.5	103.4	10.95	2500	2000	2.5	5/4.0	4/3.0	5/4.0	4/3.0
- 04UN	TTXWB-15	20	15	0.045	1.14	0.550	13.97	0.591	15.01	243.9	362.9	10.95	2500	2000	5.0	5/0.6	4/0.5	5/0.6	4/0.5

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

MIL-DTL-24643C
MIL-DTL-24640C

VG 95218 P60-66

Attached table

TTXS, TTXSW

MIL-DTL-24640C/5E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/5)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UN	TTXS-2	20	2	0.038	0.97	0.335	8.51	0.361	9.17	74.3	110.5	10.95	2500	1000	3.0	-	-	-	-
-02UN	TTXS-4	20	4	0.041	1.04	0.393	9.98	0.424	10.77	115.0	171.1	10.95	2500	1000	3.5	-	-	-	-
-03UN	TTXSW-2	20	2	0.038	0.97	0.380	9.65	0.400	10.16	94.8	141.0	10.95	2500	1000	3.0	-	-	-	-
-04UN	TTXSW-4	20	4	0.041	1.04	0.430	10.92	0.455	11.56	135.3	201.3	10.95	2500	1000	3.5	-	-	-	-

TTXSO, TTXSOW

MIL-DTL-24640C/5E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/5)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	TTXSO-2	20	2	0.041	1.04	0.386	9.80	0.416	10.57	126.0	187.5	10.95	2500	1000	5.0	-	-	-	-
-02UO	TTXSO-6	20	6	0.044	1.12	0.506	12.85	0.546	13.87	219.0	325.8	10.95	2500	1000	6.5	-	-	-	-
-03UO	TTXSO-8	20	8	0.044	1.12	0.587	14.91	0.633	16.08	284.0	422.6	10.95	2500	1000	8.0	-	-	-	-
-04UO	TTXSO-10	20	10	0.044	1.12	0.627	15.93	0.675	17.15	322.0	479.1	10.95	2500	1000	8.0	-	-	-	-
-05UO	TTXSOW-2	20	2	0.041	1.04	0.405	10.29	0.430	10.92	137.7	204.9	10.95	2500	1000	5.0	-	-	-	-
-06UO	TTXSOW-6	20	6	0.044	1.12	0.555	14.10	0.585	14.86	250.1	372.1	10.95	2500	1000	6.5	-	-	-	-
-07UO	TTXSOW-8	20	8	0.044	1.12	0.600	15.24	0.635	16.13	302.0	449.3	10.95	2500	1000	8.0	-	-	-	-
-08UO	TTXSOW-10	20	10	0.044	1.12	0.685	17.40	0.725	18.42	385.1	573.0	10.95	2500	1000	8.0	-	-	-	-

2XAO, 2XAOW

MIL-DTL-24640C/6E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/6)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	2XAO-2	22	2	0.038	0.97	0.307	7.80	0.331	8.41	79.4	118.1	17.39	2500	2000	4.0	-	-	-	-
-02UO	2XAO-7	22	7	0.041	1.04	0.392	9.96	0.422	10.72	131.0	194.9	17.39	2500	2000	5.0	-	-	-	-
-03UO	2XAO-10	22	10	0.041	1.04	0.475	12.07	0.511	12.98	175.0	260.4	17.39	2500	2000	6.0	-	-	-	-
-04UO	2XAO-18	22	18	0.044	1.12	0.567	14.40	0.611	15.52	263.0	391.3	17.39	2500	2000	7.5	-	-	-	-
-05UO	2XAO-40	22	40	0.047	1.19	0.796	20.22	0.858	21.79	513.0	763.3	17.39	2500	2000	10.5	-	-	-	-
-06UO	2XAOW-2	22	2	0.038	0.97	0.310	7.87	0.335	8.51	115.1	171.3	17.39	2500	2000	4.0	-	-	-	-
-07UO	2XAOW-7	22	7	0.041	1.04	0.395	10.03	0.425	10.80	134.6	200.3	17.39	2500	2000	5.0	-	-	-	-
-08UO	2XAOW-10	22	10	0.041	1.04	0.475	12.07	0.515	13.08	184.2	274.1	17.39	2500	2000	6.0	-	-	-	-
-09UO	2XAOW-18	22	18	0.044	1.12	0.570	14.48	0.615	15.62	263.0	391.3	17.39	2500	2000	7.5	-	-	-	-
-10UO	2XAOW-40	22	40	0.047	1.19	0.800	20.32	0.860	21.84	494.6	735.9	17.39	2500	2000	10.5	-	-	-	-

1XMSO, 1XMSOW

MIL-DTL-24640C/7E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/7)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	1XMSO-7	22	7	0.038	0.97	0.344	8.74	0.370	9.40	116.0	172.6	17.11	2500	1000	4.5	-	-	-	-
-02UO	1XMSO-16	22	16	0.041	1.04	0.471	11.96	0.507	12.88	212.0	315.4	17.11	2500	1000	6.0	-	-	-	-
-03UO	1XMSO-70	22	70	0.044	1.12	0.859	21.82	0.925	23.50	735.0	1093.6	17.11	2500	1000	11.0	-	-	-	-
-04UO	1XMSOW-7	22	7	0.038	0.97	0.360	9.14	0.385	9.78	144.0	214.3	17.11	2500	1000	4.5	-	-	-	-
-05UO	1XMSOW-16	22	16	0.041	1.04	0.480	12.19	0.510	12.95	255.0	379.4	17.11	2500	1000	6.0	-	-	-	-
-06UO	1XMSOW-70	22	70	0.044	1.12	0.875	22.23	0.925	23.50	900.0	1339.1	17.11	2500	1000	11.0	-	-	-	-

MXO, MXOW

MIL-DTL-24640C/8E

Electrical cables, 600V, **Lightweight, Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Identification	Standard identification code by Method 1 or 3
Cabbling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/8)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	MXO-10	20	10	0.038	0.97	0.349	8.86	0.377	9.58	118.0	175.6	10.79	2500	2000	4.5	-	-	-	-
- 02UO	MXO-14	20	14	0.041	1.04	0.380	9.65	0.410	10.41	147.0	218.7	10.79	2500	2000	5.0	-	-	-	-
- 03UO	MXOW-10	20	10	0.038	0.97	0.350	8.89	0.380	9.65	119.0	177.1	10.79	2500	2000	4.5	-	-	-	-
- 04UO	MXOW-14	20	14	0.041	1.04	0.380	9.65	0.415	10.54	147.0	218.7	10.79	2500	2000	5.0	-	-	-	-

2XS, 2XSW

MIL-DTL-24640C/9E

Electrical cables, 600V, **Lightweight, Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabbling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/9)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	2XS-2	22	2	0.038	0.97	0.308	7.82	0.332	8.43	61.4	91.4	17.37	2500	1000	3.0	-	-	-	-
- 02UN	2XS-3	22	3	0.038	0.97	0.325	8.26	0.350	8.89	74.2	110.4	17.37	2500	1000	3.0	-	-	-	-
- 03UN	2XS-7	22	7	0.041	1.04	0.423	10.74	0.455	11.56	135.0	200.9	17.37	2500	1000	4.0	-	-	-	-
- 04UN	2XS-10	22	10	0.044	1.12	0.537	13.64	0.579	14.71	194.0	288.6	17.37	2500	1000	5.0	-	-	-	-
- 05UN	2XS-14	22	14	0.044	1.12	0.582	14.78	0.627	15.93	245.0	364.5	17.37	2500	1000	5.0	-	-	-	-
- 06UN	2XS-19	22	19	0.044	1.12	0.644	16.36	0.694	17.63	319.0	474.6	17.37	2500	1000	5.5	-	-	-	-
- 07UN	2XS-24	22	24	0.047	1.19	0.758	19.25	0.818	20.78	431.0	641.3	17.37	2500	1000	6.5	-	-	-	-
- 08UN	2XS-30	22	30	0.047	1.19	0.804	20.42	0.866	22.00	500.0	743.9	17.37	2500	1000	7.0	-	-	-	-
- 09UN	2XSW-2	22	2	0.038	0.97	0.310	7.87	0.335	8.51	79.0	117.5	17.37	2500	1000	3.0	-	-	-	-
- 10UN	2XSW-3	22	3	0.038	0.97	0.350	8.89	0.380	9.65	109.0	162.2	17.37	2500	1000	3.0	-	-	-	-
- 11UN	2XSW-7	22	7	0.041	1.04	0.475	12.07	0.505	12.83	204.0	303.5	17.37	2500	1000	4.0	-	-	-	-
- 12UN	2XSW-10	22	10	0.044	1.12	0.575	14.61	0.610	15.49	295.0	438.9	17.37	2500	1000	5.0	-	-	-	-
- 13UN	2XSW-14	22	14	0.044	1.12	0.635	16.13	0.675	17.15	387.0	575.8	17.37	2500	1000	5.0	-	-	-	-
- 14UN	2XSW-19	22	19	0.044	1.12	0.725	18.42	0.765	19.43	513.0	763.3	17.37	2500	1000	5.5	-	-	-	-
- 15UN	2XSW-24	22	24	0.047	1.19	0.815	20.70	0.855	21.72	642.0	955.2	17.37	2500	1000	6.5	-	-	-	-
- 16UN	2XSW-30	22	30	0.047	1.19	0.915	23.24	0.955	24.26	805.0	1197.7	17.37	2500	1000	7.0	-	-	-	-

2XSO, 2XSOW

MIL-DTL-24640C/9E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene flouride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/9)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	2XSO-3	22	3	0.038	0.97	0.380	9.65	0.410	10.41	117.0	174.1	17.37	2500	1000	3.0	-	-	-	-
-02UO	2XSO-7	22	7	0.041	1.04	0.474	12.04	0.510	12.95	190.0	282.7	17.37	2500	1000	4.0	-	-	-	-
-03UO	2XSO-10	22	10	0.044	1.12	0.594	15.09	0.640	16.26	287.0	427.0	17.37	2500	1000	5.0	-	-	-	-
-04UO	2XSO-14	22	14	0.044	1.12	0.636	16.15	0.686	17.42	323.0	480.6	17.37	2500	1000	5.0	-	-	-	-
-05UO	2XSO-19	22	19	0.044	1.12	0.709	18.01	0.765	19.43	423.0	629.4	17.37	2500	1000	5.5	-	-	-	-
-06UO	2XSO-30	22	30	0.047	1.19	0.869	22.07	0.937	23.80	644.0	958.2	17.37	2500	1000	7.0	-	-	-	-
-07UO	2XSOW-3	22	3	0.038	0.97	0.400	10.16	0.430	10.92	153.0	227.6	17.37	2500	1000	3.0	-	-	-	-
-08UO	2XSOW-7	22	7	0.041	1.04	0.500	12.70	0.540	13.72	267.0	397.3	17.37	2500	1000	4.0	-	-	-	-
-09UO	2XSOW-10	22	10	0.044	1.12	0.600	15.24	0.640	16.26	350.0	520.8	17.37	2500	1000	5.0	-	-	-	-
-10UO	2XSOW-14	22	14	0.044	1.12	0.675	17.15	0.720	18.29	460.0	684.4	17.37	2500	1000	5.0	-	-	-	-
-11UO	2XSOW-19	22	19	0.044	1.12	0.750	19.05	0.805	20.45	600.0	892.7	17.37	2500	1000	5.5	-	-	-	-
-12UO	2XSOW-30	22	30	0.047	1.19	0.925	23.50	0.975	24.77	895.0	1331.6	17.37	2500	1000	7.0	-	-	-	-

MXSO, MXSOW

MIL-DTL-24640C/10F

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene flouride insulation jacket)
Identification	Standard identification code by Method 1
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/10)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	MXSO-2	16	2	0.034	0.86	0.282	7.16	0.304	7.72	76.4	113.7	5.15	2500	2000	4.0	-	-	-	-
-02UO	MXSO-9	16	9	0.041	1.04	0.424	10.77	0.458	11.63	180.0	267.8	5.15	2500	2000	5.5	-	-	-	-
-03UO	MXSO-21	16	21	0.044	1.12	0.552	14.02	0.596	15.14	329.0	489.5	5.15	2500	2000	7.5	-	-	-	-
-04UO	MXSO-37	16	37	0.044	1.12	0.644	16.36	0.694	17.63	497.0	739.5	5.15	2500	2000	8.5	-	-	-	-
-05UO	MXSOW-2	16	2	0.034	0.86	0.282	7.16	0.304	7.72	83.0	123.5	5.15	2500	2000	4.0	-	-	-	-
-06UO	MXSOW-9	16	9	0.041	1.04	0.424	10.77	0.458	11.63	200.0	297.6	5.15	2500	2000	5.5	-	-	-	-
-07UO	MXSOW-21	16	21	0.044	1.12	0.552	14.02	0.596	15.14	365.0	543.1	5.15	2500	2000	7.5	-	-	-	-
-08UO	MXSOW-37	16	37	0.044	1.12	0.644	16.36	0.694	17.63	550.0	818.3	5.15	2500	2000	8.5	-	-	-	-

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Attached table

3XS, 3XSW

MIL-DTL-24640C/11E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi triads

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a triad (one Black, one White & one Red)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/11)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	3XS-7	18	3	0.044	1.12	0.601	15.27	0.647	16.43	315.0	468.7	6.67	2500	1000	8.0	-	-	-	-
- 02UN	3XSW-7	18	3	0.044	1.12	0.600	15.24	0.645	16.38	350.0	520.8	6.67	2500	1000	8.0	-	-	-	-

2XO, 2XOW

MIL-DTL-24640C/12E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12,
Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Identification	Standard identification code by Method 6
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/12)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	2XO-6	26	6	0.038	0.97	0.305	7.75	0.329	8.36	81.6	121.4	44.24	2500	2000	4.0	-	-	-	-
- 02UO	2XO-18	26	18	0.041	1.04	0.417	10.59	0.449	11.40	140.0	208.3	44.24	2500	2000	5.5	-	-	-	-
- 03UO	2XO-24	26	24	0.044	1.12	0.473	12.01	0.509	12.93	175.0	260.4	44.24	2500	2000	6.0	-	-	-	-
- 04UO	2XO-42	26	42	0.044	1.12	0.565	14.35	0.609	15.47	275.0	409.2	44.24	2500	2000	7.5	-	-	-	-
- 05UO	2XO-60	26	60	0.047	1.19	0.641	16.28	0.691	17.55	334.0	496.9	44.24	2500	2000	8.5	-	-	-	-
- 06UO	2XO-77	26	77	0.047	1.19	0.728	18.49	0.785	19.94	395.0	587.7	44.24	2500	2000	9.5	-	-	-	-
- 07UO	2XOW-6	26	6	0.038	0.97	0.310	7.87	0.340	8.64	78.0	116.1	44.24	2500	2000	4.0	-	-	-	-
- 08UO	2XOW-18	26	18	0.041	1.04	0.420	10.67	0.460	11.68	129.0	191.9	44.24	2500	2000	5.5	-	-	-	-
- 09UO	2XOW-24	26	24	0.044	1.12	0.475	12.07	0.525	13.34	178.0	264.8	44.24	2500	2000	6.0	-	-	-	-
- 10UO	2XOW-42	26	42	0.044	1.12	0.570	14.48	0.630	16.00	243.0	361.6	44.24	2500	2000	7.5	-	-	-	-
- 11UO	2XOW-60	26	60	0.047	1.19	0.660	16.76	0.710	18.03	315.0	468.7	44.24	2500	2000	8.5	-	-	-	-
- 12UO	2XOW-77	26	77	0.047	1.19	0.740	18.80	0.800	20.32	400.0	595.1	44.24	2500	2000	9.5	-	-	-	-

2XSXO, 2XSXOW

MIL-DTL-24640C/13E

Electrical cables, 600V, **Lightweight**, **Watertight or Non-Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene flouride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/13)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	2XSXO-4	26	4	0.038	0.97	0.333	8.46	0.359	9.12	101.0	150.3	44.24	2500	2000	4.5	-	-	-	-
-02UO	2XSXOW-4	26	4	0.038	0.97	0.350	8.89	0.390	9.91	147.0	218.7	44.24	2500	2000	4.5	-	-	-	-

1XSOW

MIL-DTL-24640C/14E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi conductor

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene flouride insulation jacket)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/14)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
-01UO	1XSOW-2	22	2	0.034	0.86	0.292	7.42	0.314	7.98	85.0	126.5	17.63	2500	1000	4.0	-	-	-	-
-02UO	1XSOW-14	22	14	0.041	1.04	0.470	11.94	0.506	12.85	280.0	416.6	17.63	2500	1000	6.0	-	-	-	-
-03UO	1XSOW-20	22	20	0.044	1.12	0.542	13.77	0.584	14.83	330.0	491.0	17.63	2500	1000	7.0	-	-	-	-
-04UO	1XSOW-30	22	30	0.044	1.12	0.614	15.60	0.662	16.81	429.0	638.3	17.63	2500	1000	8.0	-	-	-	-

MIL-DTL-24643C
MIL-DTL-24640C

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Attached table

2XSAW

MIL-DTL-24640C/15E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/15)	Type and size	Conductor size	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
						Minimum		Maximum								DC or 60Hz		400Hz	
		AWG	inch	mm	inch	mm	inch	mm	inch	mm	pound/1000feet	kg/km	40°C	50°C	40°C	50°C			
- 01UN	2XSAW-3	22	3	0.041	1.04	0.368	9.35	0.396	10.06	115.0	171.1	17.89	2500	2000	3.5	-	-	-	-
- 02UN	2XSAW-7	22	7	0.041	1.04	0.461	11.71	0.497	12.62	195.0	290.1	17.89	2500	2000	4.0	-	-	-	-
- 03UN	2XSAW-14	22	14	0.041	1.04	0.641	16.28	0.691	17.55	390.0	580.3	17.89	2500	2000	5.5	-	-	-	-

2XSAOW

MIL-DTL-24640C/15E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/15)	Type and size	Conductor size	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
						Minimum		Maximum								DC or 60Hz		400Hz	
		AWG	inch	mm	inch	mm	inch	mm	inch	mm	pound/1000feet	kg/km	40°C	50°C	40°C	50°C			
- 01UO	2XSAOW-3	22	3	0.041	1.04	0.405	10.29	0.437	11.10	160.0	238.1	17.89	2500	2000	5.5	-	-	-	-
- 02UO	2XSAOW-7	22	7	0.044	1.12	0.510	12.95	0.550	13.97	260.0	386.8	17.89	2500	2000	7.5	-	-	-	-
- 03UO	2XSAOW-10	22	10	0.044	1.12	0.631	16.03	0.681	17.30	385.0	572.8	17.89	2500	2000	8.5	-	-	-	-
- 04UO	2XSAOW-14	22	14	0.047	1.19	0.689	17.50	0.743	18.87	465.0	691.9	17.89	2500	2000	9.0	-	-	-	-
- 05UO	2XSAOW-19	22	19	0.047	1.19	0.757	19.23	0.817	20.75	627.0	932.9	17.89	2500	2000	10.0	-	-	-	-
- 06UO	2XSAOW-24	22	24	0.047	1.19	0.884	22.45	0.952	24.18	800.0	1190.3	17.89	2500	2000	11.5	-	-	-	-
- 07UO	2XSAOW-30	22	30	0.050	1.27	0.941	23.90	1.020	25.91	910.0	1354.0	17.89	2500	2000	12.5	-	-	-	-
- 08UO	2XSAOW-37	22	37	0.050	1.27	1.010	25.65	1.090	27.69	1050.0	1562.3	17.89	2500	2000	13.0	-	-	-	-

2XSAWA

MIL-DTL-24640C/15E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin
Armour	Metal braid armour

Military part No. (24640/15)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01AN	2XSAWA-3	22	3	0.041	1.04	0.418	10.62	0.456	11.58	148.0	220.2	17.89	2500	2000	3.5	-	-	-	-
- 02AN	2XSAWA-7	22	7	0.041	1.04	0.511	12.98	0.557	14.15	244.0	363.0	17.89	2500	2000	4.0	-	-	-	-
- 03AN	2XSAWA-14	22	14	0.041	1.04	0.691	17.55	0.751	19.08	446.0	663.6	17.89	2500	2000	5.5	-	-	-	-

2XSW

MIL-DTL-24640C/16E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2 (Not required for 2XSW-1)
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/16)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	2XSW-1	18	1	0.034	0.86	0.240	6.10	0.258	6.55	52.90	78.7	7.11	2500	1000	2.0	-	-	-	-
- 02UN	2XSW-3	18	3	0.041	1.04	0.436	11.07	0.470	11.94	175.00	260.4	7.11	2500	1000	4.0	-	-	-	-
- 03UN	2XSW-7	18	7	0.044	1.12	0.573	14.55	0.617	15.67	330.00	491.0	7.11	2500	1000	5.0	-	-	-	-

MIL-DTL-24643C
MIL-DTL-24640C

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Attached table

2XSOW

MIL-DTL-24640C/16E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/16)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	2XSOW-3	18	3	0.041	1.04	0.487	12.37	0.525	13.34	227.00	337.7	7.11	2500	1000	6.5	-	-	-	-
- 02UO	2XSOW-7	18	7	0.044	1.12	0.608	15.44	0.656	16.66	401.00	596.6	7.11	2500	1000	8.0	-	-	-	-
- 03UO	2XSOW-12	18	12	0.047	1.19	0.802	20.37	0.864	21.95	665.00	989.4	7.11	2500	1000	10.5	-	-	-	-
- 04UO	2XSOW-19	18	19	0.050	1.27	0.938	23.83	1.010	25.65	950.00	1413.5	7.11	2500	1000	12.5	-	-	-	-
- 05UO	2XSOW-30	18	30	0.057	1.45	1.180	29.97	1.270	32.26	1442.00	2145.5	7.11	2500	1000	15.5	-	-	-	-

2XOW

MIL-DTL-24640C/17E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene fluoride insulation jacket)
Twist	Two conductors cabled to form a pair (one Black & one White)
Identification	Standard identification code by Method 6
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/17)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	2XOW-6	26	6	0.038	0.97	0.336	8.53	0.363	9.22	181.60	270.2	46.01	2500	1000	4.5	-	-	-	-
- 02UO	2XOW-18	26	18	0.041	1.04	0.468	11.89	0.504	12.80	201.00	299.1	46.01	2500	1000	6.0	-	-	-	-
- 03UO	2XOW-24	26	24	0.044	1.12	0.546	13.87	0.588	14.94	266.00	395.8	46.01	2500	1000	7.0	-	-	-	-
- 04UO	2XOW-42	26	42	0.044	1.12	0.646	16.41	0.686	17.42	380.00	565.4	46.01	2500	1000	8.5	-	-	-	-
- 05UO	2XOW-60	26	60	0.047	1.19	0.744	18.90	0.802	20.37	485.00	721.6	46.01	2500	1000	10.5	-	-	-	-
- 06UO	2XOW-77	26	77	0.047	1.19	0.840	21.34	0.906	23.01	615.00	915.0	46.01	2500	1000	11.0	-	-	-	-

3XSW

MIL-DTL-24640C/18E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi triads

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene flouride insulation jacket)
Twist	Three conductors cabled to form a triad (one Black, one White & one Red)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/18)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	3XSW-3	18	3	0.041	1.04	0.472	11.99	0.508	12.90	205.00	305.0	7.11	2500	1000	4.0	-	-	-	-
- 02UN	3XSW-7	18	7	0.044	1.12	0.620	15.75	0.668	16.97	390.00	580.3	7.11	2500	1000	5.5	-	-	-	-
- 03UN	3XSW-10	18	10	0.047	1.19	0.803	20.40	0.865	21.97	625.00	929.9	7.11	2500	1000	7.0	-	-	-	-
- 04UN	3XSW-14	18	14	0.047	1.19	0.873	22.17	0.941	23.90	775.00	1153.1	7.11	2500	1000	7.5	-	-	-	-

3XSOW

MIL-DTL-24640C/18E

Electrical cables, 600V, **Lightweight**, **Watertight**, Component wire 81044/12, Temp. -20°C to 105°C, Multi triads

Conductor	Tin-coated copper
Component wire	81044/12 (Extruded cross-linked polyalkene insulation with cross-linked polyvinylidene flouride insulation jacket)
Twist	Three conductors cabled to form a triad (one Black, one White & one Red)
Shield	Braid shield of tin-coated copper
Shield insulation	Two shielded polyester tapes
Identification	Standard identification code by Method 2
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/18)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	3XSOW-3	18	3	0.044	1.12	0.519	13.18	0.559	14.20	271.00	403.2	7.11	2500	1000	7.0	-	-	-	-
- 02UO	3XSOW-7	18	7	0.044	1.12	0.659	16.74	0.711	18.06	475.00	706.7	7.11	2500	1000	8.5	-	-	-	-
- 03UO	3XSOW-10	18	10	0.047	1.19	0.835	21.21	0.901	22.89	730.00	1086.1	7.11	2500	1000	11.0	-	-	-	-
- 04UO	3XSOW-14	18	14	0.047	1.19	0.898	22.81	0.968	24.59	880.00	1309.3	7.11	2500	1000	12.0	-	-	-	-
- 05UO	3XSOW-19	18	19	0.050	1.27	1.010	25.65	1.090	27.69	1150.00	1711.0	7.11	2500	1000	13.0	-	-	-	-
- 06UO	3XSOW-24	18	24	0.057	1.45	1.200	30.48	1.300	33.02	1607.00	2391.0	7.11	2500	1000	16.0	-	-	-	-

MIL-DTL-24643C
MIL-DTL-24640C

VG 95218 P60-66

Attached table

DXW

MIL-DTL-24640C/19E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381,
Temp. -20°C to 105°C, Two Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/19)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	DXW-3	16	2	0.034	0.86	0.239	6.07	0.257	6.53	50.0	74.4	4.35	2500	2000	2.0	13	12	13	12
- 02UN	DXW-4	14	2	0.034	0.86	0.281	7.14	0.303	7.70	71.0	105.6	2.88	2500	2000	2.5	22	20	22	20

DXOW

MIL-DTL-24640C/19E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381,
Temp. -20°C to 105°C, Two Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/19)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	DXOW-3	16	2	0.034	0.86	0.294	7.47	0.316	8.03	98.6	146.7	4.35	2500	2000	4.0	13	12	13	12
- 02UO	DXOW-4	14	2	0.034	0.86	0.328	8.33	0.354	8.99	125.4	186.6	2.88	2500	2000	4.5	22	20	22	20

TXW

MIL-DTL-24640C/20E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, Three Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/20)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	TXW-3	16	3	0.034	0.86	0.246	6.25	0.266	6.76	65.2	97.0	4.35	2500	2000	3.0	11	10	11	10
- 02UN	TXW-4	14	3	0.038	0.97	0.292	7.42	0.314	7.98	99.1	147.4	2.88	2500	2000	3.0	18	17	18	17

TXOW

MIL-DTL-24640C/20E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, Three Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/20)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	TXOW-3	16	3	0.034	0.86	0.305	7.75	0.329	8.36	113.5	168.9	4.35	2500	2000	4.0	11	10	11	10
- 02UO	TXOW-4	14	3	0.038	0.97	0.343	8.71	0.369	9.37	147.5	219.5	2.88	2500	2000	4.5	18	17	18	17

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60~66

Attached table

FXW

MIL-DTL-24640C/21E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, Four Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/21)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	FXW-3	16	4	0.034	0.86	0.266	6.76	0.286	7.26	78.2	116.4	4.35	2500	2000	3.0	11	10	11	10
- 02UN	FXW-4	14	4	0.038	0.97	0.315	8.00	0.339	8.61	115.1	171.3	2.88	2500	2000	3.0	18	17	18	17

FXOW

MIL-DTL-24640C/21E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, Four Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/22)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	FXOW-3	16	4	0.038	0.97	0.324	8.23	0.350	8.89	131.6	195.8	4.35	2500	2000	4.2	11	10	11	10
- 02UO	FXOW-4	14	4	0.041	1.04	0.366	9.30	0.394	10.01	164.9	245.3	2.88	2500	2000	5.0	18	17	18	17

7XW

MIL-DTL-24640C/22E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, 7 Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/22)	Type and size	Conductor size	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
		AWG	inch	mm	inch	mm	inch	mm	inch	mm	pound/1000feet	kg/km	40°C	50°C	40°C	50°C			
-01UN	7XW-3	16	7	0.038	0.97	0.315	8.00	0.339	8.61	110.0	163.7	4.35	2500	2000	3.0	15/11	14/10	15/11	14/10
-02UN	7XW-4	14	7	0.041	1.04	0.374	9.50	0.404	10.26	162.0	241.0	2.88	2500	2000	3.5	26.24	24/13	26/14	24/13

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

MXCW

MIL-DTL-24640C/23E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, 7~61 Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/23)	Type and size	Conductor size	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
		AWG	inch	mm	inch	mm	inch	mm	inch	mm	pound/1000feet	kg/km	40°C	50°C	40°C	50°C			
-01UN	MXCW-7	18	7	0.038	0.97	0.295	7.49	0.319	8.10	90.0	133.9	7.07	2500	2000	2.5	12/8	9/6	-	-
-02UN	MXCW-10	18	10	0.041	1.04	0.375	9.53	0.405	10.29	139.0	206.8	7.07	2500	2000	3.5	12/8	9/6	-	-
-03UN	MXCW-14	18	14	0.041	1.04	0.402	10.21	0.434	11.02	173.0	257.4	7.07	2500	2000	3.5	12/8	9/6	-	-
-04UN	MXCW-19	18	19	0.041	1.04	0.440	11.18	0.474	12.04	215.0	319.9	7.07	2500	2000	4.0	12/8	9/6	-	-
-05UN	MXCW-24	18	24	0.044	1.12	0.520	13.21	0.560	14.22	295.0	438.9	7.07	2500	2000	4.5	12/6	9/5	-	-
-06UN	MXCW-30	18	30	0.044	1.12	0.547	13.89	0.589	14.96	340.0	505.9	7.07	2500	2000	4.5	12/6	9/5	-	-
-07UN	MXCW-37	18	37	0.044	1.12	0.584	14.83	0.630	16.00	398.0	592.2	7.07	2500	2000	5.0	12/6	9/5	-	-
-08UN	MXCW-44	18	44	0.044	1.12	0.656	16.66	0.708	17.98	492.0	732.0	7.07	2500	2000	5.5	12/5	9/4	-	-
-09UN	MXCW-61	18	61	0.047	1.19	0.729	18.52	0.785	19.94	640.0	952.2	7.07	2500	2000	6.5	12/4.5	9/3.5	-	-

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60~66

Attached table

MXCOW

MIL-DTL-24640C/23E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, 7-61 Conductor

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Identification	Standard identification code by Method 1 or 3
Cabling	On multi-conductor, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/23)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	MXCOW-7	18	7	0.038	0.97	0.340	8.64	0.366	9.30	140.0	208.3	7.07	2500	2000	4.5	12/8	9/6	-	-
- 02UO	MXCOW-10	18	10	0.041	1.04	0.415	10.54	0.447	11.35	185.0	275.3	7.07	2500	2000	5.5	12/8	9/6	-	-
- 03UO	MXCOW-14	18	14	0.041	1.04	0.440	11.18	0.474	12.04	225.0	334.8	7.07	2500	2000	6.0	12/8	9/6	-	-
- 04UO	MXCOW-19	18	19	0.041	1.04	0.477	12.12	0.515	13.08	280.0	416.6	7.07	2500	2000	6.5	12/8	9/6	-	-
- 05UO	MXCOW-24	18	24	0.044	1.12	0.557	14.15	0.601	15.27	362.0	538.6	7.07	2500	2000	7.5	12/6	9/5	-	-
- 06UO	MXCOW-30	18	30	0.044	1.12	0.584	14.83	0.630	16.00	399.0	593.7	7.07	2500	2000	7.5	12/6	9/5	-	-
- 07UO	MXCOW-37	18	37	0.044	1.12	0.622	15.80	0.670	17.02	466.0	693.3	7.07	2500	2000	8.0	12/6	9/5	-	-
- 08UO	MXCOW-44	18	44	0.047	1.19	0.697	17.70	0.751	19.08	574.0	854.0	7.07	2500	2000	9.0	12/5	9/4	-	-
- 09UO	MXCOW-61	18	61	0.047	1.19	0.757	19.23	0.817	20.75	715.0	1063.8	7.07	2500	2000	10.0	12/4.5	9/3.5	-	-

Note. Individual/Average indicates the maximum current for each conductor(Ind), and the maximum current(Avg) for each conductor when all conductors in the cable are used.

TTXW

MIL-DTL-24640C/24E

Electrical cables, 600V, **Lightweight**, **Watertight with circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Twist	Two conductors cabled to form a pair (one Black & one White)
Identification	Standard identification code by Method 3 or 6
Cabling	On multi-pair, Filler may be used as necessary
Jacket	Cross-linked polyolefin

Military part No. (24640/24)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UN	TTXW-1 ^{1/2}	22	1 ^{1/2}	0.028	0.71	0.181	4.60	0.195	4.95	26.0	38.7	17.54	2500	2000	1.5	-	-	-	-
- 02UN	TTXW-3	22	3	0.038	0.97	0.285	7.24	0.307	7.80	62.3	92.7	17.54	2500	2000	2.5	-	-	-	-
- 03UN	TTXW-5	22	5	0.037	0.94	0.331	8.41	0.357	9.07	91.0	135.4	17.54	2500	2000	3.0	-	-	-	-
- 04UN	TTXW-10	22	10	0.041	1.04	0.456	11.58	0.492	12.50	172.0	255.9	17.54	2500	2000	4.0	-	-	-	-
- 05UN	TTXW-15	22	15	0.044	1.12	0.527	13.39	0.569	14.45	235.0	349.6	17.54	2500	2000	4.5	-	-	-	-
- 06UN	TTXW-20	22	20	0.044	1.12	0.577	14.66	0.621	15.77	285.0	424.0	17.54	2500	2000	5.0	-	-	-	-
- 07UN	TTXW-30	22	30	0.044	1.12	0.684	17.37	0.738	18.75	417.0	620.4	17.54	2500	2000	6.0	-	-	-	-
- 08UN	TTXW-40	22	40	0.047	1.19	0.790	20.07	0.852	21.64	544.0	809.4	17.54	2500	2000	7.0	-	-	-	-

TTXOW

MIL-DTL-24640C/24E

Electrical cables, 600V, **Lightweight**, **Watertight with Circuit integrity**, Component wire 81381, Temp. -20°C to 105°C, Multi pairs

Conductor	Tin-coated or uncoated copper
Component wire	81381 (Mica glass, polyimide tape and polyimide-FEP tape with polyimide coating)
Twist	Two conductors cabled to form a pair (one Black & one White)
Identification	Standard identification code by Method 3 or 6
Cabling	On multi-pair, Filler may be used as necessary
Shield	Braid shield of tin-coated copper
Jacket	Cross-linked polyolefin

Military part No. (24640/24)	Type and size	Conductor size AWG	Number of conductors	Jacket wall thk. Min.		Overall diameter				Cable weight (Max.)		Conductor resistance Max. at 25°C (Ω/1000ft)	Insulation resistance Min. at 15.5°C (MΩ/1000ft)	Test voltage (V/1min.)	Radius of Bending Min. (inch)	Ampacity, Each conductor (A, Max.)			
				inch	mm	Minimum		Maximum		pound/1000feet	kg/km					DC or 60Hz		400Hz	
						inch	mm	inch	mm							40°C	50°C	40°C	50°C
- 01UO	TTXOW-11/2	22	11/2	0.031	0.79	0.253	6.43	0.273	6.93	67.9	101.0	17.54	2500	2000	3.5	-	-	-	-
- 02UO	TTXOW-3	22	3	0.038	0.97	0.333	8.46	0.359	9.12	108.0	160.7	17.54	2500	2000	4.5	-	-	-	-
- 03UO	TTXOW-5	22	5	0.038	0.97	0.376	9.55	0.406	10.31	134.0	199.4	17.54	2500	2000	5.0	-	-	-	-
- 04UO	TTXOW-15	22	15	0.044	1.12	0.556	14.12	0.600	15.24	299.0	444.9	17.54	2500	2000	7.5	-	-	-	-
- 05UO	TTXOW-20	22	20	0.044	1.12	0.614	15.60	0.662	16.81	371.0	552.0	17.54	2500	2000	8.0	-	-	-	-
- 06UO	TTXOW-30	22	30	0.047	1.19	0.717	18.21	0.772	19.61	497.0	739.5	17.54	2500	2000	9.5	-	-	-	-
- 07UO	TTXOW-40	22	40	0.047	1.19	0.823	20.90	0.887	22.53	631.0	938.8	17.54	2500	2000	11.0	-	-	-	-

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60~66

Attached table



VG 95218 P60~66

Standard No.	Description	Description
VG 95218 Part. 60 Type A	1200V MGSGO	Single-core, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 60 Type B	1200V MGSGO	Multi-core, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 60 Type C	1200V MGGO	Single-core, halogen free cross-linked polymeric insulated, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 60 Type D	660V MGSGO	Multi-core, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 61 Type A	550V LMGSGO	Multi-core, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 62 Type A	250V FMGSGO	Multi-pair, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 63 Type A	250V FMGSSGO	Multi-shielded pair, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 64 Type A	250V LFMGSSGO	Multi-pair, halogen free cross-linked polymeric insulated, double screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 64 Type B	250V LFMGSGO	Multi-pair, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 64 Type C	DC 650V LFMGSSGO	Multi-pair, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 65 Type A	250V LFMGSSGO	Multi-shielded pair, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 65 Type B	250V LFMGSSGO	Multi-shielded pair, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 65 Type C	250V LFMGSSGO	Multi-shielded quad, halogen free cross-linked polymeric insulated, screened, halogen free cross-linked elastomeric sheathed cables
VG 95218 Part. 66 Type A	250V LFMGSSGO	Multi-shielded pair, halogen free cross-linked polymeric insulated, double screened, halogen free cross-linked elastomeric sheathed cables



1200V MGSGO

VG 95218 PART 60. TYPE A

Single-core insulated wire, screen, Operating voltage up to AC 1200V, DC 1800V, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	By insulation colour (Black)
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)				Min.	Max.				
		mm ²	EA	mm				mm	mm				
001	1 x 4	4	7	2.7	1.0	0.3	1.0	7.5	8.5	150	4.70	850	5D ¹⁾
002	1 x 6	6	7	3.3	1.0	0.3	1.0	8.4	9.4	180	3.11	750	5D ¹⁾
003	1 x 10	10	7	4.2	1.0	0.3	1.1	9.5	10.5	240	1.84	600	5D ¹⁾
004	1 x 16	16	7	5.3	1.0	0.3	1.1	10.0	11.2	300	1.16	500	5D ¹⁾
005	1 x 25	25	7	6.6	1.2	0.3	1.2	12.0	13.0	420	0.734	450	5D ¹⁾
006	1 x 35	35	7	7.9	1.2	0.3	1.2	13.0	14.0	545	0.529	400	5D ¹⁾
007	1 x 50	50	19	9.1	1.4	0.3	1.3	15.0	16.2	680	0.391	400	5D ¹⁾
008	1 x 70	70	19	11.0	1.4	0.3	1.3	17.0	18.2	920	0.270	350	5D ¹⁾
009	1 x 95	95	19	12.9	1.6	0.3	1.4	19.5	20.5	1,220	0.195	350	5D ¹⁾
016	1 x 95	95	660	13.0	1.6	0.3	1.4	19.6	21.0	1,210	0.210	350	4D ¹⁾
010	1 x 120	120	37	14.5	1.6	0.3	1.5	21.0	22.4	1,505	0.154	300	5D ¹⁾
017	1 x 120	120	845	14.6	1.6	0.3	1.5	21.8	23.0	1,500	0.164	300	4D ¹⁾
011	1 x 150	150	37	16.2	1.8	0.3	1.5	23.0	24.5	1,795	0.126	300	5D ¹⁾
018	1 x 150	150	1060	16.3	1.8	0.3	1.5	24.0	25.2	1,850	0.132	300	4D ¹⁾
012	1 x 185	185	37	18.0	2.0	0.3	1.6	25.5	27.0	2,200	0.100	300	5D ¹⁾
015	1 x 185	185	1290	18.1	2.0	0.3	1.6	26.2	27.4	2,192	0.108	300	4D ¹⁾
013	1 x 240	240	61	20.6	2.2	0.3	1.7	29.0	30.5	2,860	0.0762	300	5D ¹⁾
019	1 x 240	240	1735	20.7	2.2	0.3	1.7	29.5	31.0	2,780	0.0817	300	4D ¹⁾
014	1 x 300	300	61	23.1	2.4	0.3	1.8	31.5	33.0	3,520	0.0607	300	5D ¹⁾
020	1 x 300	300	2100	23.2	2.4	0.3	1.8	32.5	34.0	3,440	0.0654	300	4D ¹⁾

D¹⁾ Maximum overall diameter

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

1200V MGSGO

VG 95218 PART 60. TYPE B

Cable single screened, Operating voltage up to AC 1200V, DC 1800V, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Indentification	According to VG 95218-60 Annex. B
Cabling	On multi-conductor, Filler may be used as necessary
Covering	Halogen free material
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Thickness of common covering	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.			Min.	Max.				
034	2 x 1.5	1.5	7	1.7	1.0	1.0	7.5	8.5	0.3	1.2	11.5	12.7	250	12.2	1200	5D ¹⁾
035	2 x 2.5	2.5	7	2.2	1.0	1.0	8.5	9.5	0.3	1.2	12.5	13.5	300	7.56	1000	5D ¹⁾
036	2 x 4	4	7	2.7	1.0	1.0	9.5	10.8	0.3	1.2	13.4	14.7	360	4.70	850	5D ¹⁾
037	2 x 6	6	7	3.3	1.0	1.0	10.8	12.1	0.3	1.3	14.7	16.0	445	3.11	750	5D ¹⁾
038	2 x 10	10	7	4.2	1.0	1.0	12.5	13.8	0.3	1.3	16.2	17.9	590	1.84	600	5D ¹⁾
039	2 x 16	16	7	5.3	1.0	1.0	14.5	15.8	0.3	1.4	19.0	20.5	795	1.16	500	5D ¹⁾
040	2 x 25	25	7	6.6	1.2	1.0	17.8	19.3	0.3	1.5	22.5	24.0	1,130	0.734	450	5D ¹⁾
041	3 x 1.5	1.5	7	1.7	1.0	1.0	8.5	9.5	0.3	1.2	12.0	13.2	295	12.2	1200	5D ¹⁾
042	3 x 2.5	2.5	7	2.2	1.0	1.0	9.3	10.3	0.3	1.2	13.0	14.2	350	7.56	1000	5D ¹⁾
043	3 x 4	4	7	2.7	1.0	1.0	10.3	11.5	0.3	1.2	14.0	15.2	430	4.70	850	5D ¹⁾
044	3 x 6	6	7	3.3	1.0	1.0	11.6	12.9	0.3	1.3	15.5	17.0	540	3.11	750	5D ¹⁾
045	3 x 10	10	7	4.2	1.0	1.0	13.5	14.8	0.3	1.4	17.6	19.1	735	1.84	600	5D ¹⁾
046	3 x 16	16	7	5.3	1.0	1.0	15.7	17.1	0.3	1.4	20.0	21.6	1,080	1.16	500	5D ¹⁾
065	3 x 16	16	115	5.3	1.0	1.0	15.7	17.1	0.3	1.4	20.0	21.6	1,080	1.24	500	4D ¹⁾
047	3 x 25	25	7	6.6	1.2	1.0	19.2	20.6	0.3	1.6	24.0	25.6	1,455	0.734	450	5D ¹⁾
066	3 x 25	25	175	6.6	1.2	1.0	19.2	20.6	0.3	1.6	24.0	25.6	1,410	0.795	450	4D ¹⁾
048	3 x 35	35	7	7.9	1.2	1.0	21.5	23.0	0.3	1.7	26.0	28.2	1,865	0.529	400	5D ¹⁾
067	3 x 35	35	250	8.0	1.2	1.0	21.7	23.2	0.3	1.7	26.2	28.4	1,830	0.565	400	4D ¹⁾
049	3 x 50	50	19	9.1	1.4	1.0	25.0	26.7	0.3	1.8	30.0	32.4	2,455	0.391	400	5D ¹⁾
068	3 x 50	50	360	9.5	1.4	1.2	26.0	27.7	0.3	1.8	31.0	33.2	2,300	0.393	400	4D ¹⁾
050	3 x 70	70	19	11.0	1.4	1.2	28.9	31.1	0.3	1.9	34.5	36.9	3,270	0.270	350	5D ¹⁾
063	3 x 70	70	490	11.2	1.4	1.2	30.5	32.5	0.3	1.9	36.0	38.2	3,435	0.277	350	4D ¹⁾
051	3 x 95	95	19	12.9	1.6	1.2	33.6	35.8	0.4	2.1	39.7	42.2	4,650	0.195	350	5D ¹⁾
062	3 x 95	95	660	13.0	1.6	1.2	35.5	37.7	0.4	2.1	41.6	43.8	4,490	0.210	350	4D ¹⁾
052	3 x 120	120	37	14.5	1.6	1.2	36.9	39.4	0.4	2.2	43.0	45.7	5,350	0.154	300	5D ¹⁾
069	3 x 120	120	845	14.6	1.6	1.2	37.1	39.6	0.4	2.1	44.5	46.5	5,340	0.164	300	4D ¹⁾
053	4 x 4	4	7	2.7	1.0	1.0	11.4	12.7	0.3	1.3	15.2	16.7	525	4.70	850	5D ¹⁾
054	4 x 6	6	7	3.3	1.0	1.0	12.9	14.2	0.3	1.3	17.0	18.5	660	3.11	750	5D ¹⁾
055	4 x 10	10	7	4.2	1.0	1.0	15.1	16.6	0.3	1.4	19.4	20.9	900	1.84	600	5D ¹⁾
056	4 x 16	16	7	5.3	1.0	1.0	17.5	19.0	0.3	1.5	22.0	23.7	1,245	1.16	500	5D ¹⁾
070	4 x 16	16	115	5.3	1.0	1.0	17.5	19.0	0.3	1.5	22.0	23.7	1,205	1.24	500	4D ¹⁾
057	4 x 25	25	7	6.6	1.2	1.0	21.4	23.0	0.3	1.7	26.4	28.0	1,805	0.734	450	5D ¹⁾
071	4 x 25	25	175	6.6	1.2	1.0	21.4	23.0	0.3	1.7	26.4	28.2	1,760	0.795	450	4D ¹⁾
058	4 x 35	35	7	7.9	1.2	1.0	24.0	25.8	0.3	1.8	29.2	31.2	2,350	0.529	400	5D ¹⁾
064	4 x 35	35	250	8.0	1.2	1.0	25.7	27.5	0.3	1.8	31.0	33.0	2,410	0.565	400	4D ¹⁾
059	4 x 50	50	19	9.1	1.4	1.2	28.1	30.4	0.4	1.9	33.5	36.0	3,150	0.391	400	5D ¹⁾
072	4 x 50	50	360	9.5	1.4	1.2	28.1	30.4	0.4	1.9	34.3	37.0	3,170	0.393	400	4D ¹⁾
060	4 x 70	70	19	11.0	1.4	1.2	32.2	34.5	0.4	2.1	38.2	40.9	4,560	0.270	350	5D ¹⁾
073	4 x 70	70	490	11.2	1.4	1.2	32.2	34.5	0.4	2.1	40.0	42.5	4,390	0.277	350	4D ¹⁾
061	4 x 95	95	19	12.9	1.6	1.2	37.5	39.8	0.4	2.3	44.2	46.7	5,790	0.195	350	5D ¹⁾
074	4 x 95	95	660	13.0	1.6	1.2	37.5	39.8	0.4	2.3	45.5	48.2	5,605	0.210	350	4D ¹⁾
100	5 x 2.5	2.5	7	2.2	1.0	1.0	11.5	12.5	0.3	1.3	16.0	17.5	300	7.56	1000	5D ¹⁾
101	5 x 4	4	7	2.7	1.0	1.0	13.0	14.0	0.3	1.4	17.5	19.0	360	4.70	850	5D ¹⁾
102	7 x 2.5	2.5	7	2.2	1.0	1.0	13.0	14.0	0.3	1.4	17.5	19.0	300	7.56	1000	5D ¹⁾
030	33 x 0.75	0.75	7	1.2	0.8	0.5	18.6	19.5	0.3	1.4	22.5	24.5	900	24.8	1200	5D ¹⁾

D¹⁾ Maximum overall diameter

1200V MGGO

VG 95218 PART 60. TYPE C

Insulated wire, Operating voltage up to AC 1200V, DC 1800V, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Indentification	By insulation colour (Black)
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.				
		mm ²	EA	mm			mm	mm				
005	1 x 25	25	7	6.6	1.2	1.2	10.7	12.4	350	0.734	450	5D ¹⁾
006	1 x 35	35	7	7.9	1.2	1.2	12.0	13.7	465	0.529	400	5D ¹⁾
007	1 x 50	50	19	9.1	1.2	1.2	13.2	14.9	590	0.391	400	5D ¹⁾
008	1 x 70	70	19	11.0	1.4	1.3	15.7	17.4	785	0.270	350	5D ¹⁾
009	1 x 95	95	19	12.9	1.6	1.4	18.2	19.9	1,070	0.195	350	5D ¹⁾
011	1 x 95	95	660	13.0	1.6	1.4	18.3	20.0	1,080	0.206	350	4D ¹⁾
010	1 x 120	120	37	14.5	1.6	1.4	19.8	21.5	1,190	0.154	300	5D ¹⁾
012	1 x 120	120	845	14.6	1.6	1.5	20.1	21.8	1,225	0.161	300	4D ¹⁾
001	1 x 150	150	37	16.2	1.8	1.5	21.5	24.0	1,600	0.126	300	5D ¹⁾
013	1 x 150	150	1060	16.3	1.8	1.5	21.6	23.0	1,620	0.129	300	4D ¹⁾
002	1 x 185	185	1290	18.1	2.0	1.6	24.8	26.3	1,996	0.106	300	4D ¹⁾
003	1 x 240	240	1735	20.7	2.2	1.7	27.3	28.9	2,490	0.080	300	4D ¹⁾
004	1 x 300	300	2100	23.2	2.4	1.8	30.0	31.5	3,010	0.064	300	4D ¹⁾

D¹⁾ Maximum overall diameter

660V MGSGO

VG 95218 PART 60. TYPE D

Cable single screened, Operating voltage up to AC 6600V, DC 1000V, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Indentification	According to VG 95218-60 Annex. B
Cabbling	On multi-conductor, Filler may be used as necessary
Covering	Halogen free material
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Thickness of common covering	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.			Min.	Max.				
		mm ²	EA	mm			mm	mm			mm	mm				
001	19 x 6	6	73	3.2	0.7	1.5	24.2	26.0	0.3	1.8	29.4	30.8	2,000	3.39	750	4D ¹⁾

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MIL-DTL-24640C

VG 95218 P60-66

Attached table

550V LMGSGO

VG 95218 PART 61. TYPE A

Cable, Operating voltage up to AC 550V, DC 825V, screened, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Indentification	According to VG 95218-60 Annex. B
Cabling	On multi-conductor, Filler may be used as necessary
Covering	Halogen free material
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)		Min.	Max.			Min.	Max.				
019	2 x 1.5	1.5	7	1.7	0.4	4.7	5.5	0.15	0.8	7.0	8.0	100	12.2	600	5D ¹⁾
020	2 x 2.5	2.5	7	2.2	0.4	5.4	6.3	0.20	0.8	7.7	8.8	135	7.56	500	5D ¹⁾
021	3 x 1.5	1.5	7	1.7	0.4	5.1	6.1	0.15	0.8	7.2	8.4	115	12.2	600	5D ¹⁾
022	3G x 1.5	1.5	7	1.7	0.4	5.1	6.1	0.15	0.8	7.2	8.4	115	12.2	600	5D ¹⁾
023	3 x 2.5	2.5	7	2.2	0.4	5.9	6.9	0.20	0.8	8.0	9.4	165	7.56	500	5D ¹⁾
024	3G x 2.5	2.5	7	2.2	0.4	5.9	6.9	0.20	0.8	8.0	9.4	165	7.56	500	5D ¹⁾
025	4 x 1.5	1.5	7	1.7	0.4	5.6	6.6	0.20	0.8	7.8	9.4	155	12.2	600	5D ¹⁾
026	4 x 2.5	2.5	7	2.2	0.4	6.5	7.5	0.20	0.8	8.7	10.4	205	7.56	500	5D ¹⁾
027	5 x 1.5	1.5	7	1.7	0.4	6.2	7.2	0.20	0.8	8.3	9.6	180	12.2	600	5D ¹⁾
028	5G x 1.5	1.5	7	1.7	0.4	6.2	7.2	0.20	0.8	8.3	9.6	180	12.2	600	5D ¹⁾
107	5G x 2.5	2.5	7	2.2	0.4	7.8	8.8	0.20	1.0	10.5	12.0	265	7.56	500	5D ¹⁾
005	7 x 1.5	1.5	7	1.7	0.4	6.9	7.9	0.20	1.0	9.3	10.8	230	12.2	600	5D ¹⁾
105	7G x 1.5	1.5	7	1.7	0.4	6.9	7.9	0.20	1.0	9.3	10.8	230	12.2	600	5D ¹⁾
017	7 x 2.5	2.5	7	2.2	0.4	8.1	9.3	0.20	1.0	10.3	12.0	315	7.56	500	5D ¹⁾
108	7G x 2.5	2.5	7	2.2	0.4	8.1	9.3	0.20	1.0	10.3	12.0	315	7.56	500	5D ¹⁾
006	10 x 1.5	1.5	7	1.7	0.4	8.5	9.7	0.20	1.0	10.8	12.5	320	12.2	600	5D ¹⁾
106	10G x 1.5	1.5	7	1.7	0.4	8.5	9.7	0.20	1.0	10.8	12.5	320	12.2	600	5D ¹⁾
007	12 x 1.5	1.5	7	1.7	0.4	9.6	10.9	0.20	1.0	12.0	13.5	360	12.2	600	5D ¹⁾
008	14 x 1.5	1.5	7	1.7	0.4	10.2	11.5	0.20	1.0	12.7	14.2	405	12.2	600	5D ¹⁾
009	16 x 1.5	1.5	7	1.7	0.4	10.8	12.2	0.20	1.0	13.2	14.8	455	12.2	600	5D ¹⁾
010	19 x 1.5	1.5	7	1.7	0.4	11.5	12.9	0.20	1.0	13.9	15.3	490	12.2	600	5D ¹⁾
011	24 x 1.5	1.5	7	1.7	0.4	13.0	14.5	0.20	1.0	15.5	17.5	635	12.2	600	5D ¹⁾
012	27 x 1.5	1.5	7	1.7	0.4	14.2	15.7	0.20	1.0	16.6	18.3	695	12.2	600	5D ¹⁾
013	33 x 1.5	1.5	7	1.7	0.4	15.4	17.1	0.20	1.0	17.5	19.5	825	12.2	600	5D ¹⁾
018	37 x 1.5	1.5	7	1.7	0.4	15.4	17.1	0.20	1.0	20.0	22.0	970	12.2	600	5D ¹⁾

D¹⁾ Maximum overall diameter

250V FMGSGO

VG 95218 PART 62. TYPE A

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, screened, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-62 Annex. B
Twist	Two conductors cabled to form a pair
Cabling	On multi-pair conductor, Filler may be used as necessary
Covering	Halogen free material
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)		Min.	Max.			Min.	Max.				
008	1 x 2 x 0.75	0.75	7	1.2	0.4	3.8	4.8	0.15	0.8	6.0	7.2	80	53.2	800	5D ¹⁾
001	2 x 2 x 0.75	0.75	7	1.2	0.4	4.5	5.8	0.15	0.8	6.7	8.0	95	53.2	800	5D ¹⁾
002	4 x 2 x 0.75	0.75	7	1.2	0.4	7.0	8.4	0.20	1.0	9.6	11.2	190	53.2	800	5D ¹⁾
003	6 x 2 x 0.75	0.75	7	1.2	0.4	8.2	9.7	0.20	1.0	10.8	12.5	250	53.2	800	5D ¹⁾
004	8 x 2 x 0.75	0.75	7	1.2	0.4	9.7	11.2	0.20	1.0	11.9	13.6	305	53.2	800	5D ¹⁾
005	10 x 2 x 0.75	0.75	7	1.2	0.4	10.9	12.4	0.20	1.0	13.7	15.4	375	53.2	800	5D ¹⁾
006	14 x 2 x 0.75	0.75	7	1.2	0.4	12.1	13.7	0.20	1.0	14.9	16.7	480	53.2	800	5D ¹⁾
007	16 x 2 x 0.75	0.75	7	1.2	0.4	13.3	15.3	0.20	1.0	16.1	18.1	535	53.2	800	5D ¹⁾

D¹⁾ Maximum overall diameter

250V FMSGSGO

VG 95218 PART 63. TYPE A

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, screened, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-63 Annex. B
Twist	Two conductors cabled to form a pair
Screened pair	Copper braid
Cabling	On multi-pair conductor, Filler may be used as necessary
Covering	Halogen free material
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Dia. of screen wire (individual)	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.			Min.	Max.				
001	2 x 2 x 0.75	0.75	7	1.2	0.4	0.15	8.3	9.9	0.20	0.8	11.1	12.5	220	53.2	800	5D ¹⁾
002	4 x 2 x 0.75	0.75	7	1.2	0.4	0.15	10.0	11.6	0.20	1.0	12.9	14.5	330	53.2	800	5D ¹⁾
003	7 x 2 x 0.75	0.75	7	1.2	0.4	0.15	12.4	13.9	0.20	1.0	14.9	16.4	470	53.2	800	5D ¹⁾
004	11 x 2 x 0.75	0.75	7	1.2	0.4	0.15	16.4	18.2	0.20	1.2	19.6	21.4	710	53.2	800	5D ¹⁾
005	14 x 2 x 0.75	0.75	7	1.2	0.4	0.15	17.7	19.7	0.25	1.2	20.8	22.8	890	53.2	800	5D ¹⁾
006	19 x 2 x 0.75	0.75	7	1.2	0.4	0.15	20.0	22.0	0.25	1.4	23.4	25.4	1,120	53.2	800	5D ¹⁾
007	24 x 2 x 0.75	0.75	7	1.2	0.4	0.15	23.3	25.3	0.25	1.4	26.4	28.4	1,420	53.2	800	5D ¹⁾

D¹⁾ Maximum overall diameter

250V LFMGSSGO

VG 95218 PART 64. TYPE A

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, double screened, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Indentification	According to VG 95218-64 Annex. B
Twist	Two conductors cabled to form a pair
Cabling	On multi-pair conductor, Filler may be used as necessary
Screen	Copper braid
Seperator	Polyester tapes
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Covering Dia.		Dia. of screen wire (overall-1st)	Dia. of screen wire (overall-2nd)	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)		Min.	Max.				Min.	Max.				
001	2 x 2 x 0.4	0.4	7	0.85	0.2	3.6	4.6	0.15	0.15	0.8	5.8	7.0	85	115	1500	5D ¹⁾
002	4 x 2 x 0.4	0.4	7	0.85	0.2	5.3	6.3	0.15	0.15	0.8	7.7	9.0	130	115	1500	5D ¹⁾
003	7 x 2 x 0.4	0.4	7	0.85	0.2	6.0	7.4	0.20	0.20	0.9	9.4	11.0	210	115	1500	5D ¹⁾
004	12 x 2 x 0.4	0.4	7	0.85	0.2	9.3	10.8	0.20	0.20	1.0	12.8	14.5	320	115	1500	5D ¹⁾
005	19 x 2 x 0.4	0.4	7	0.85	0.2	11.6	13.4	0.20	0.20	1.0	13.8	15.7	420	115	1500	5D ¹⁾
006	27 x 2 x 0.4	0.4	7	0.85	0.2	11.8	13.6	0.20	0.20	1.1	15.5	17.5	511	115	150	5D ¹⁾

D¹⁾ Maximum overall diameter

250V LFMGSGO

VG 95218 PART 64. TYPE B

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, screened, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Indentification	According to VG 95218-64 Annex. B
Twist	Two conductors cabled to form a pair
Cabling	On multi-pair conductor, Filler may be used as necessary
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)		Min.	Max.			Min.	Max.				
001	30 x 2 x 0.4	0.4	7	0.85	0.2	14.1	15.9	0.20	1.4	17.5	18.7	540	115	1500	5D ¹⁾
002	45 x 2 x 0.4	0.4	7	0.85	0.2	16.7	18.6	0.20	1.6	20.6	22.7	690	115	1500	5D ¹⁾

D¹⁾ Maximum overall diameter

DC 650V LFMGSGO

VG 95218 PART 64. TYPE C

Cable, Operating voltage up to DC 650V, pair formation, screened, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-64 Annex. B
Twist	Two conductors cabled to form a pair
Cabbling	On multi-pair conductor, Filler may be used as necessary
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)		Min.	Max.			Min.	Max.				
		mm ²	EA	mm		mm	mm			mm	mm				
001	60 x 2 x 0.15	0.15	7	0.55	0.3	17.4	18.0	0.25	1.6	22.4	23.0	800	280	1500	5D ¹⁾

D¹⁾ Maximum overall diameter

250V LFMSGSGO

VG 95218 PART 65. TYPE A

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, screened pair, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-65 Annex. B
Twist	Two conductors cabled to form a pair
Screened pair	Copper braid
Cabbling	On multi-pair conductor, Filler may be used as necessary
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Dia. of screen wire (individual)	Screen Dia.		Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.	Min.	Max.			Min.	Max.				
		mm ²	EA	mm			mm	mm	mm	mm			mm	mm				
001	2 x 2 x 0.4	0.4	7	0.85	0.2	0.12	3.10	3.80	6.6	7.8	0.20	0.8	9.3	10.5	155	115	1500	5D ¹⁾
002	4 x 2 x 0.4	0.4	7	0.85	0.2	0.12	3.10	3.80	7.8	9.1	0.20	0.8	10.0	11.5	214	115	1500	5D ¹⁾
003	7 x 2 x 0.4	0.4	7	0.85	0.2	0.12	3.10	3.80	9.4	10.9	0.20	0.9	12.0	13.7	320	115	1500	5D ¹⁾
004	12 x 2 x 0.4	0.4	7	0.85	0.2	0.12	3.10	3.80	12.8	14.3	0.20	1.0	15.5	17.0	485	115	1500	5D ¹⁾
005	19 x 2 x 0.4	0.4	7	0.85	0.2	0.12	3.10	3.80	16.0	18.0	0.20	1.0	18.4	20.4	715	115	1500	5D ¹⁾
006	27 x 2 x 0.4	0.4	7	0.85	0.2	0.12	3.10	3.80	19.4	21.4	0.20	1.1	22.5	24.5	1,010	115	1500	5D ¹⁾

D¹⁾ Maximum overall diameter

250V LFMSGSGO

VG 95218 PART 65. TYPE B

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, screened pair, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-65 Annex. B
Twist	Two conductors cabled to form a pair
Screened pair	Copper braid
Cabling	On multi-pair conductor, Filler may be used as necessary
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Dia. of screen wire (individual)	Screen Dia.		Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.	Min.	Max.			Min.	Max.				
		mm ²	EA	mm			mm	mm	mm	mm			mm	mm				
001	3 x 2 x 1.2	1.2	7	1.50	0.25	0.15	4.80	5.50				1.2	20.0	22.2	820	32	1500	5D ¹⁾
	18 x 2 x 0.25	0.25	7	0.65	0.2	0.12	3.00	3.70	18.5	20.5	0.20				167			

D¹⁾ Maximum overall diameter

250V LFMSGSGO

VG 95218 PART 65. TYPE C

Cable, Operating voltage up to AC 250V, DC 355V, quad formation, screened quad, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-65 Annex. B
Twist	Four conductors cabled to form a quad
Screened pair	Copper braid
Cabling	On multi-quad conductor, Filler may be used as necessary
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Dia. of screen wire (individual)	Screen Dia.		Covering Dia.		Dia. of screen wire	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.	Min.	Max.			Min.	Max.				
		mm ²	EA	mm			mm	mm	mm	mm			mm	mm				
001	27x 4 x 0.25	0.25	7	0.21	0.2	0.12	3.00	4.00	18.9	20.9	0.20	1.2	22.0	26.0	1,100	167	1500	5D ¹⁾

D¹⁾ Maximum overall diameter

250V FMSGSSGO

VG 95218 PART 66. TYPE A

Cable, Operating voltage up to AC 250V, DC 355V, pair formation, screened pair, Temp -30°C to 90°C

Conductor	Copper conductor according to DIN EN 60228
Separator	Option
Insulation	Halogen free cross-linked polymeric material
Identification	According to VG 95218-62 Annex. B
Twist	Two conductors cabled to form a pair
Screened pair	Copper braid
Cabling	On multi-pair conductor, Filler may be used as necessary
Screen	Copper braid
Seperator	Polyester tapes
Screen	Copper braid
Sheath	Halogen free, cross-linked elastomeric material

Dash No.	Size	Conductor			Thickness of Insulation	Dia. of screen wire (individual)	Screen Dia.		Covering Dia.		Dia. of screen wire (overall-1st)	Dia. of screen wire (overall-2nd)	Thickness of sheath	Overall Dia.		Cable Weight	Conductor resistance at 20°C (Max.)	Insulation resistance at 20°C (Min.)	Min. bending radius factor
		Nominal Cross-Section	No. of wires (Min.)	Dia. of conductor (Max.)			Min.	Max.	Min.	Max.				Min.	Max.				
001	5 x 3 x 0.4	0.4	7	0.85	0.2	0.12	3.30	4.00	8.4	10.1	0.20	0.20	1.0	12.2	13.9	155	57.5	1500	5D ¹⁾
002	12 x 3 x 0.4	0.4	7	0.85	0.2	0.12	3.30	4.00	12.0	14.0	0.20	0.20	1.2	16.9	18.9	214	57.5	1500	5D ¹⁾

D¹⁾ Maximum overall diameter

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table



Attached table



VG current rating	61
VG identification	63
MIL identification	66
MIL identification method	67
Copper conductor and stranding	68
MIL Cable type classification	69
Wire gauge conversion	70
Metric conversions	70



Attached table

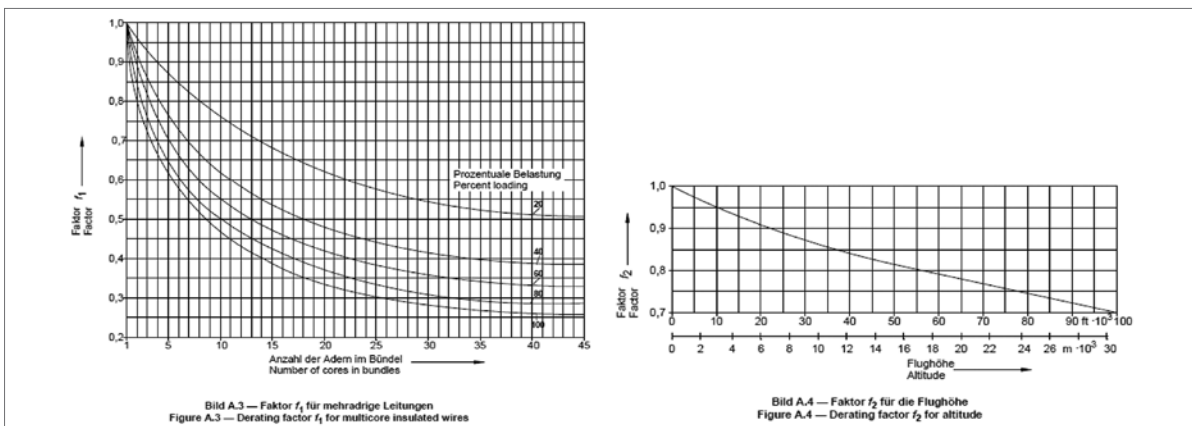
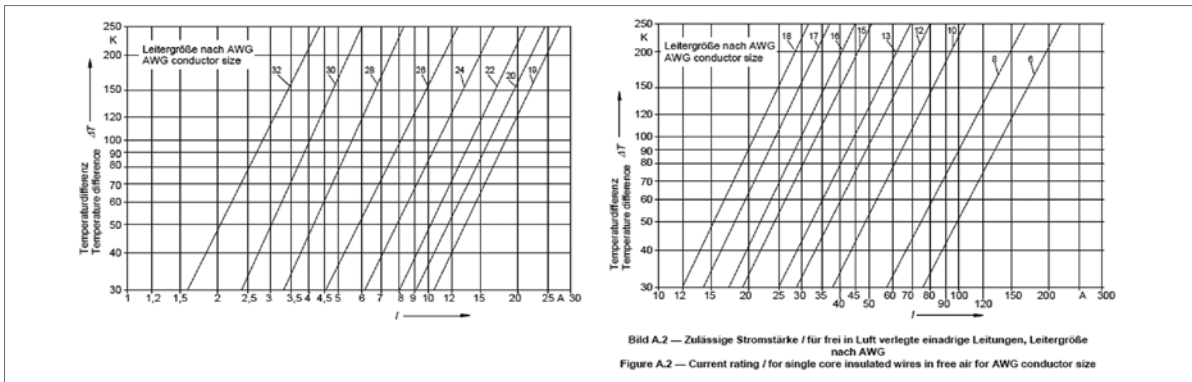
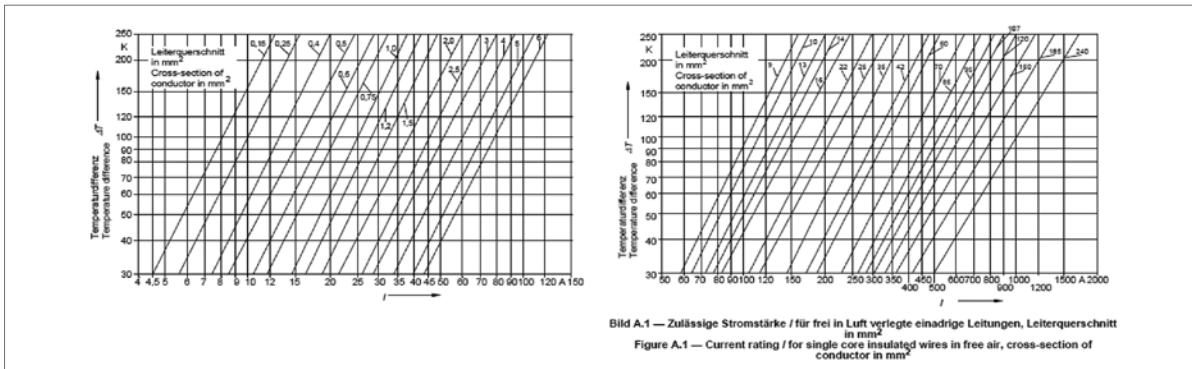
VG Current rating

Applied standard : VG 95218-5

For a single core installed in air the permissible current for continuous operation is given as a function of the temperature difference ΔT between the maximum permissible temperature T_B and the ambient temperature T_U in figure A.1 for the conductor size in mm^2 and in figure A.2 for the conductor size according to AWG.

If accumulation of loaded cores is to be considered, the currents according to figure A.1 resp. Figure A.2 are to be multiplied by the factor f_1 of figure A.3.

At short-time and intermitten duty the cores may be loaded with higher currents. The maximum operating temperature given in the detail specification shall not be exceed taking in to account all possible combinations by electric load, ambient temperature, wire bundle warming effects etc. at no place and at no time. Furthermore the demanded in-service life is to be followed.



MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

Attached table

※ Example for the use of the diagrams

Assume a multicore insulated wire consisting of 12, size AWG 12, 200°C rated cores.

The max. permissible current(100%) for the bundle of 12 conductors at an ambient temperature of 25°C and normal air pressure (sea level) as well as 60°C and 20000ft altitude will be determined as follows ;

The temperature differences ΔT between the max. permissible operation temperature T_B and the ambient temperature T_U are 175K resp. 140K for the above mentioned applications.

In figure A.2 the max. permissible current values are read as 68A resp.

61A at the intersections of $\Delta T=175K$ resp. $\Delta T=140K$ with the curve for AWG 12 conductor size.

In figure A.3 the factor f_1 of 0.43 are read at the intersection of the number of conductors 12 with the curve of 100% load.

The permissible currents of the single wires determined above will be reduced to 29.2A resp. 26.2A in consequence of multicore derating.

In figure A.4 the factor f_2 1 resp. 0.91 are read for the altitudes 0 (sea level) level) resp. 2000ft

Applying these factors to the current values 29.2A resp. 26.2A the results are 29.2A resp. 23.8A.

Consequently the multicore insulated wire capacity is 350.4A at sea level and 285.6A at 20000ft altitude.

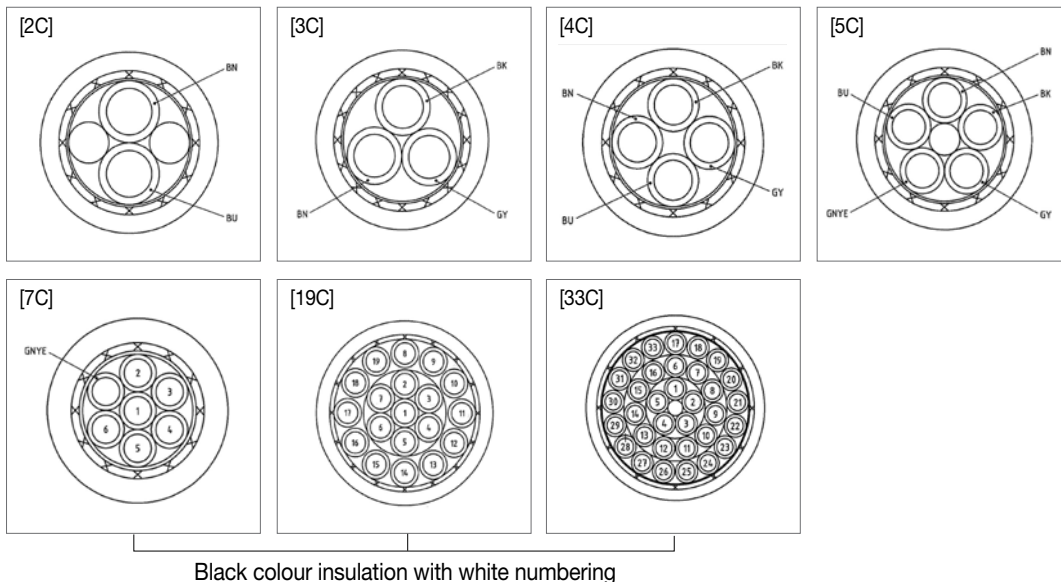
The permissible current rating of cables and insulated wires is limited, in addition, by the max. permissible voltage drop. Furthermore divergent manners of installation are to be taken into consideration.

As a rule the basis for the definition of the current rating of cables and insulated wires is a temperature rise of 40°C as a result of the current load.

VG identification

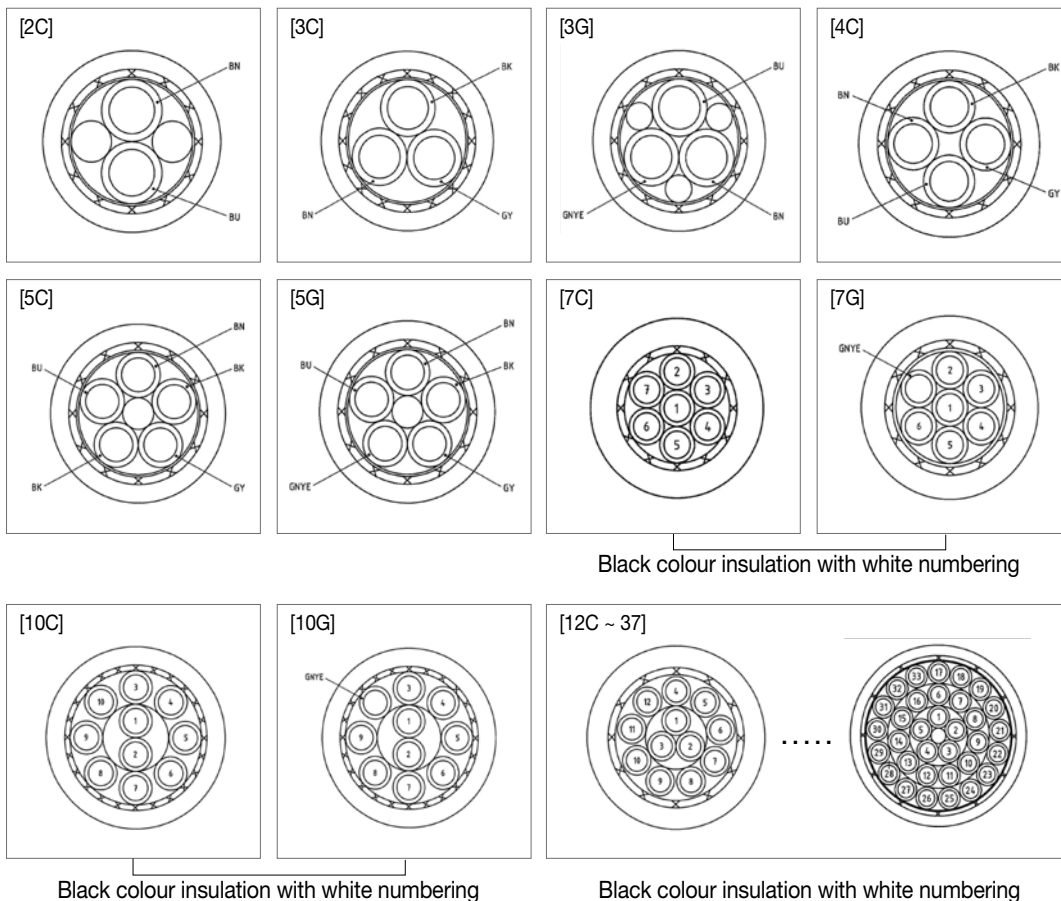
Identification : VG 95218 Part. 60

Colour code	Colour
BK	Black
BN	Brown
BU	Blue
GY	Grey



Identification : VG 95218 Part. 61

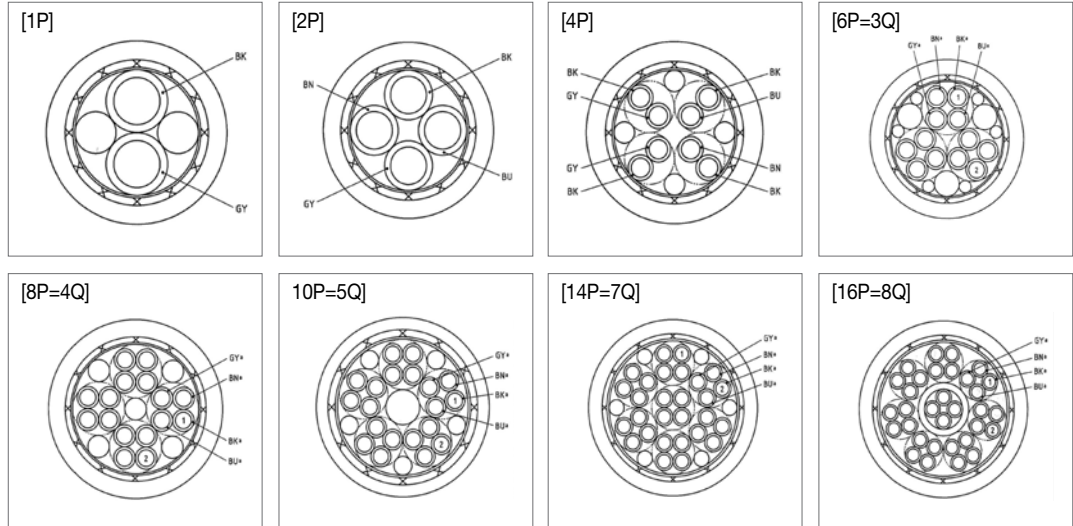
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BN	Brown
BU	Blue
GY	Grey
GNYE	Green-Yellow



Attached table

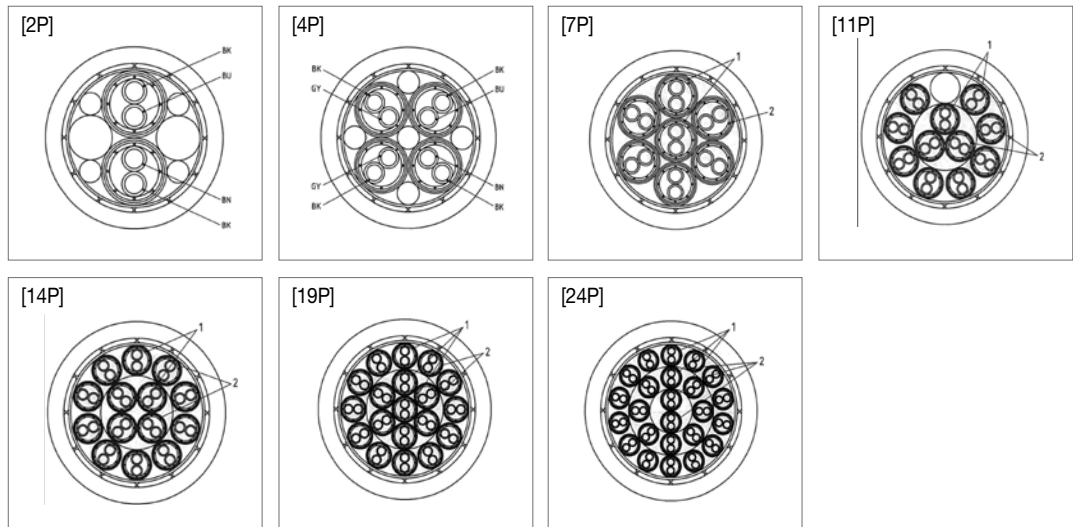
Identification : VG 95218 Part. 62

Colour code	Colour
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BN	Brown
BU	Blue
GY	Grey



Identification : VG 95218 Part. 63

Colour code	Colour
BK	Black
BN	Brown
BU	Blue
GY	Grey

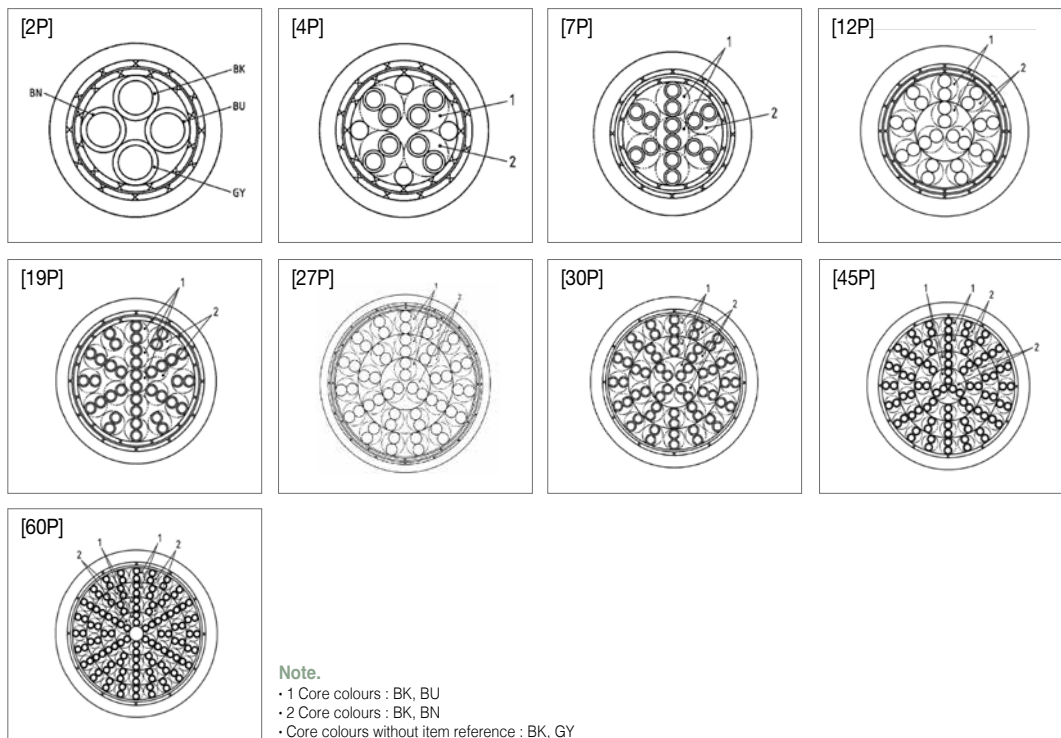


Note.
 • 1 Core colours : BK, BU
 • 2 Core colours : BK, BN
 • Core colours without item reference : BK, GY

VG identification

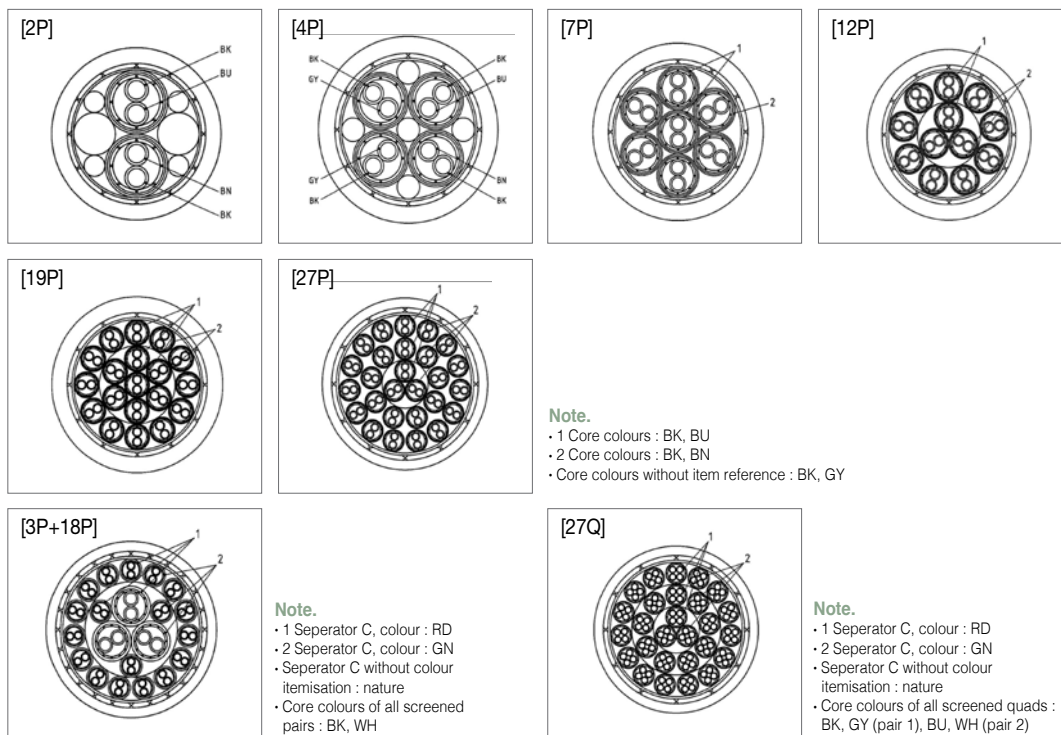
Identification : VG 95218 Part. 64

Colour code	Colour
BK	Black
BN	Brown
BU	Blue
GY	Grey



Identification : VG 95218 Part. 65

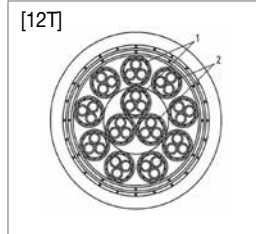
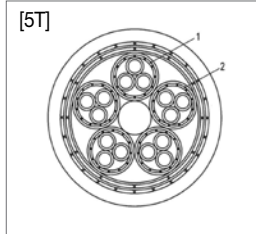
Colour code	Colour
BK	Black
BN	Brown
BU	Blue
GN	Green
GY	Grey
RD	Red
WH	White



Attached table

Identification : VG 95218 Part. 66

Colour code	Colour
BK	Black
BN	Brown
BU	Blue
GY	Grey
WH	White



Note.

- 1 Separator C, colour : RD
- 2 Separator C, colour : GN
- Separator C without colour itemisation : nature
- Core colours of all screened triples : BK, WH, GY

MIL identification

Standard identification code : MIL-DTL-24643C, MIL-DTL-24640C

Color conductor or group no.	Background or base color	First tracer color	Second tracer color	Color conductor or group no.	Background or base color	First tracer color	Second tracer color	Color conductor or group no.	Background or base color	First tracer color	Second tracer color
1	Black	-	-	44	Brown	Blue	-	87	Black	Orange	-
2	White	-	-	45	White	Black	Blue	88	White	Orange	-
3	Red	-	-	46	Red	White	Blue	89	Red	Orange	-
4	Green	-	-	47	Green	Orange	Red	90	Green	Orange	-
5	Orange	-	-	48	Orange	Red	Blue	91	Blue	Orange	-
6	Blue	-	-	49	Blue	Red	Orange	92	Black	Blue	-
7	White	Black	-	50	Black	Orange	Red	93	White	Blue	-
8	Red	Black	-	51	White	Black	Orange	94	Red	Blue	-
9	Green	Black	-	52	Red	Orange	Black	95	Green	Blue	-
10	Orange	Black	-	53	Green	Red	Blue	96	Orange	Blue	-
11	Blue	Black	-	54	Orange	Black	Blue	97	Yellow	-	-
12	Black	White	-	55	Blue	Black	Orange	98	Yellow	Black	-
13	Red	White	-	56	Black	Orange	Green	99	Yellow	White	-
14	Green	White	-	57	White	Orange	Green	100	Yellow	Red	-
15	Blue	White	-	58	Red	Orange	Green	101	Yellow	Green	-
16	Black	Red	-	59	Green	Black	Blue	102	Yellow	Orange	-
17	White	Red	-	60	Orange	Green	Blue	103	Yellow	Blue	-
18	Orange	Red	-	61	Blue	Green	Orange	104	Black	Yellow	-
19	Blue	Red	-	62	Black	Red	Blue	105	White	Yellow	-
20	Red	Green	-	63	White	Orange	Blue	106	Red	Yellow	-
21	Orange	Green	-	64	Red	Black	Blue	107	Green	Yellow	-
22	Black	White	Red	65	Green	Orange	Blue	108	Orange	Yellow	-
23	White	Black	Red	66	Orange	White	Red	109	Blue	Yellow	-
24	Red	Black	White	67	Blue	White	Red	110	Black	Yellow	Red
25	Green	Black	White	68	Black	Green	Blue	111	White	Yellow	Red
26	Orange	Black	White	69	White	Green	Blue	112	Green	Yellow	Red
27	Blue	Black	White	70	Red	Green	Blue	113	Orange	Yellow	Red
28	Black	Red	Green	71	Green	White	Red	114	Blue	Yellow	Red
29	White	Red	Green	72	Orange	Red	Black	115	Black	Yellow	White
30	Red	Black	Green	73	Blue	Red	Black	116	Red	Yellow	White
31	Green	Black	Orange	74	Black	Orange	Blue	117	Green	Yellow	White
32	Orange	Black	Green	75	Red	Orange	Blue	118	Orange	Yellow	White
33	Blue	White	Orange	76	Green	Red	Black	119	Blue	Yellow	White
34	Black	White	Orange	77	Orange	White	Green	120	Black	Yellow	Green
35	White	Red	Orange	78	Blue	White	Green	121	White	Yellow	Green
36	Orange	White	Blue	79	Red	White	Orange	122	Red	Yellow	Green
37	White	Red	Blue	80	Green	White	Orange	123	Orange	Yellow	Green
38	Brown	-	-	81	Blue	Black	Green	124	Blue	Yellow	Green
39	Brown	Black	-	82	Orange	White	-	125	Black	Yellow	Blue
40	Brown	White	-	83	Green	Red	-	126	White	Yellow	Blue
41	Brown	Red	-	84	Black	Green	-	127	Red	Yellow	Blue
42	Brown	Green	-	85	White	Green	-				
43	Brown	Orange	-	86	Blue	Green	-				

MIL identification

Identification method : MIL-DTL-24643C, MIL-DTL-24640C

► Method 1

Identification Method 1 shall be surface printing of both number and color designations.

The legend shall be printed in contrasting color; preferably white ink on black or dark background or black ink on white or light background.

The legend shall be repeated at intervals not exceeding 3 inches and alternate legends shall be inverted.

For example, 10 ORANGE BLACK BLACK ORANGE 01

► Method 2

Identification Method 2 shall use translucent (opaque) polyester tapes which have been printed with both the numbers and color designation.

The legend shall be printed with black ink and shall be repeated at intervals not exceeding 3 inches and alternation legends shall be inverted.

► Method 3

Identification Method 3 shall be the use of solid base colors or solid base colors with tracers as required.

The base color may be either the color of the insulation or the color of a coating applied to the insulation.

► Method 4

Identification Method 4 shall be the use of colored braids.

Tracers shall consist of the required colors applied by three adjacent carriers.

Where two tracers are required, they shall be applied with reverse lay.

► Method 5

Identification Method 5 shall be the use of the printed letter on the outermost insulating tape or the printed letter on a polyester binder tape over the insulating tapes.

The letter shall be approximately 3/16 inch high and shall have been printed at intervals not exceeding 3 inches prior to the application of the tape to the conductor.

If the insulating tapes are white, no printing is required on the B(white) conductor.

※ Letter identification code

Letter identification code shall consist of the letters A, B, C, and D printed in block type and with black, white, red, and green ink respectively.

► Method 6

Identification Method 6 shall consist of numerals printed in ink on the conductor insulation.

For conductors having a jacket directly over the insulation, the numerals may be printed in ink on the jacket, at the manufacturer's option.

White ink shall be used for a red or black background; black ink shall be used for a white background.

For example, 

Attached table

Copper conductor and stranding

For a given size of a conductor, increasing the number of strands while reducing the size of the individual strands will increase the conductor flexibility.

Size AWG/MCM	Circular mils	Lbs / 1000ft.	Class AA	Class A	Class B	Class C	Class D	Class G	Rope strand (Flexible)			
									Class H	Class I 24AWG (0.0201in.)	Class K 30AWG (0.010in.)	Class M 34AWG (0.0063in.)
36	25.00	0.0757	-	-	-	-	-	-	-	-	-	-
35	31.52	0.0954	-	-	-	-	-	-	-	-	-	-
34	39.75	0.1203	-	-	-	-	-	-	-	-	-	-
33	50.13	0.1517	-	-	-	-	-	-	-	-	-	-
32	63.21	0.1913	-	-	-	-	-	-	-	-	-	-
31	79.70	0.2413	-	-	-	-	-	-	-	-	-	-
30	100.5	0.3042	-	-	-	-	-	-	-	-	-	-
29	126.7	0.3836	-	-	-	-	-	-	-	-	-	-
28	159.8	0.4837	-	-	-	-	-	-	-	-	-	-
27	201.5	0.6100	-	-	-	-	-	-	-	-	-	-
26	254.1	0.7692	-	-	-	-	-	-	-	-	-	-
25	320.4	0.9699	-	-	-	-	-	-	-	-	-	-
24	404.0	1.223	-	-	-	-	-	-	-	-	-	-
23	509.5	1.542	-	-	-	-	-	-	-	-	-	-
22	642.4	1.945	-	-	-	-	-	-	-	-	-	-
21	810.1	2.452	-	-	-	-	-	-	-	-	-	-
20	1,020	3.154	-	-	7	19	-	-	-	-	10	26
18	1,620	5.015	-	-	7	19	-	-	-	-	16	41
16	2,580	7.947	-	-	7	19	-	-	-	-	26	65
14	4,110	12.68	-	-	7	19	37	49	-	-	41	104
12	6,530	20.16	-	-	7	19	37	49	-	-	65	186
10	10,380	32.06	-	-	7	19	37	49	-	-	104	259
9	13,090	40.42	-	-	7	19	37	49	133	-	133	336
8	16,510	51	-	-	7	19	37	49	133	-	168	420
6	26,240	80.9	-	-	7	19	37	49	133	63	266	665
4	41,740	129	3	7	7	19	37	49	133	105	420	1,064
3	52,620	162	3	7	7	19	37	49	133	133	532	1,323
2	66,630	205	3	7	7	19	37	49	133	161	665	1,666
1	83,690	259	3	7	19	37	61	133	259	210	836	2,107
1/0	105,600	326	7	7	19	37	61	133	259	266	1,064	2,646
2/0	133,100	411	7	7	19	37	61	133	259	342	1,323	3,325
3/0	167,800	518	7	7	19	37	61	133	259	418	1,666	4,256
4/0	211,600	653	7	7	19	37	61	133	259	532	2,107	5,320
250	250,000	772	12	19	37	61	91	259	427	637	2,499	6,384
300	300,000	925	12	19	37	61	91	259	427	735	2,989	7,581
350	350,000	1080	12	19	37	61	91	259	427	882	3,458	8,806
400	400,000	1236	19	19	37	61	91	259	427	980	3,990	10,101
500	500,000	1542	19	37	37	61	91	259	427	1,225	5,054	12,691
600	600,000	1850	37	37	61	91	127	427	703	1,470	5,985	14,945
750	750,000	2316	37	61	61	91	127	427	703	1,862	7,581	18,788
1000	1,000,000	3086	37	61	61	91	127	427	703	2,527	10,101	25,193

MIL Cable type classification

Cable type classification : MIL-DTL-24643C

	Non-Watertight		Watertight		Circuit Integrity		Watertight & Circuit Integrity	
	Unshield	Shield	Unshield	Shield	Unshield	Shield	Unshield	Shield
Power	LSSHOF, LSDHOF, LSTHOF, LSFHOF, LSSSF, LSSCF		LSSRW, LSDRW, LSTRW				LSSSGU, LSDSGU, LSTSGU, LSFSGU, LS6SGU, LS5KVTSGU, LSYSGU	LS2OW, LS3OW, LS4OW
Control	LSMHOF, LS8NW-6, LSTCF	LSFCF		LS1SWU, LS2SJ, LS3JS, LS4SJ, LS1SMWU			LSMSCU, LS7SGU	LSMSCS
Instrument		LS2SU, LS2SUS, LS3SU, LS3SUS, LSECM		LS2SWAU, LS2SWU, LS3SWU, LS3SWUS, LS2WAU, LS2SWL, LS2UW, LS2UWS			LSTTSU	
Thermocouple		LDTCXN, LSTCKXN, LSTCTXN					LSTCJU, LSTCTU,	LSTCJX, LSTCKX, LSTCTX

Cable type classification : MIL-DTL-24640C

	Non-Watertight		Watertight		Circuit Integrity		Watertight & Circuit Integrity	
	Unshield	Shield	Unshield	Shield	Unshield	Shield	Unshield	Shield
Power	DX, TX, FX		DXWB, TXWB, FXWB				DXW, TXW, FXW, 7XW	DXOW, TXOW, FXOW
Control		1XMSO, MXO, MXSO, 5XO		1XMSOW, MXOW, MXSOW, 1XSOW			MXCW	MXCOW
Instrument	TTX	TTXS, TTXS0, 2XAO, 2XS, 2XSO, 3XS, 2XO, 2XSXO, 9XS	TTXWB	TTXSW, TTXSOW, 2XAOW, 2XSW, 2XSOW, 3XSW, 2XOW, 2XSXOW, 2XSAW, 2XSAWA, 2XSAOW, 2XSW, 2XSOW, 2XOW, 3XSW, 3XSOW			TTXW	TTXOW

Note.

- 81044/12 Component wire type
- 81381 Component wire type

MIL-DTL-24643C

MIL-DTL-24640C

VG 95218 P60-66

Attached table

Attached table

Wire gauge conversion

Size AWG/MCM	Circular mils	Nominal cross section area mm ²	Solid wire nominal diameter		
			mils	inch	mm
24	404	0.204	20.1	0.0201	0.511
22	642.4	0.321	25.3	0.0253	0.643
21	810.1	0.412	28.5	0.0285	0.724
20	1,020	0.520	32.0	0.0320	0.813
19	1,290	0.653	35.9	0.0359	0.912
18	1,620	0.823	40.3	0.0402	1.02
16	2,580	1.31	50.8	0.0508	1.29
14	4,110	2.08	64.1	0.0642	1.63
12	6,530	3.31	80.8	0.0807	2.05
10	10,380	5.30	101.9	0.1019	2.59
9	13,090	6.60	114.4	0.1144	2.91
8	16,510	8.40	128.5	0.1285	3.26
6	26,240	13.30	162.0	0.1620	4.12
4	41,740	21.15	204.3	0.2043	5.19
3	52,620	26.70	229.4	0.2294	5.83
2	66,630	33.60	257.6	0.2576	6.54
1	83,690	42.40	289.3	0.2893	7.35
1/0	105,600	53.50	324.9	0.3249	8.25
2/0	133,100	67.40	364.8	0.3648	9.27
3/0	167,800	85.00	409.6	0.4094	10.40
4/0	211,600	107.20	460.0	0.4598	11.68
250	250,000	127.00	500.0	0.5000	12.70
300	300,000	152.00	547.6	0.5476	13.91
350	350,000	177.30	591.7	0.5917	15.03
400	400,000	202.70	632.3	0.6323	16.06
500	500,000	253.40	707.1	0.7071	17.96
600	600,000	304.00	774.4	0.7744	19.67
750	750,000	380.00	866.1	0.8661	22.00
1000	1,000,000	506.70	1000.0	1.0000	25.40

Metric conversions

Area

To convert from	To	Multiply by
cmils	mils ²	0.7854
cmils	inch ²	0.000007854
cmils	mm ²	0.0005066
cm ²	inch ²	0.155
feet ²	m ²	0.0929
inch ²	cmils	1,273,240
inch ²	cm ²	6.4516
inch ²	mm ²	645.16
inch ²	mils ²	1,000,000
m ²	feet ²	10.764
mm ²	inch ²	0.00155
mm ²	cmils	1,973.51
mils ²	cmils	1.2732
mils ²	inch ²	0.00001

Length

To convert from	To	Multiply by
cm	inch	0.3937
inch	cm	2.54
cm	feet	0.03281
feet	cm	30.48
feet	meter	0.3048
meter	feet	3.2808
inch	meter	0.0254
meter	inch	39.3701
inch	mm	25.4
mm	inch	0.03937
inch	mils	1,000
mils	inch	0.001
km	miles	0.6214
miles	km	1.6093
meter	yard	1.0936
yard	meter	0.9144
mm	mils	39.3701
mils	mm	0.0254

Miscellaneous

To convert from	To	Multiply by
kg	pound	2.205
pound	kg	0.4536
kg/km	pound/1000ft	0.6719
pound/1000ft	kg/km	1.488
Ω/km	Ω/1000ft	0.3048
Ω/1000ft	Ω/km	3.2808
Ω/1000yard	Ω/km	1.0936
pound/1000yard	kg/km	0.496
pound/1000yard	pound/km	1.0936



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