

CHARACTER:

1.Physical performance

- a、Excellent mechanical properties
- b、Excellent thermal stability
- c、Low temperature soft good performance
- d、Good flame retardancy
- e、Of high resistance to chemicals
- f、Chemistry stability is good
- b、Good resistance to high temperature of the engine fluid
- j、Excellent resistance to impact ability

2.Electrical Properties

- a、Electrical insulation good
- b、Good the dielectric properties

3.Processing properties

- a、Using the hot extrusion processing
- b、Can be twisted pair and multi-core
- c、Good processing properties Harness
- d、Harness processing process good compatibility
- e、According to UL standard design

4.Environmental protection

- a、ROHS/REACH compliant

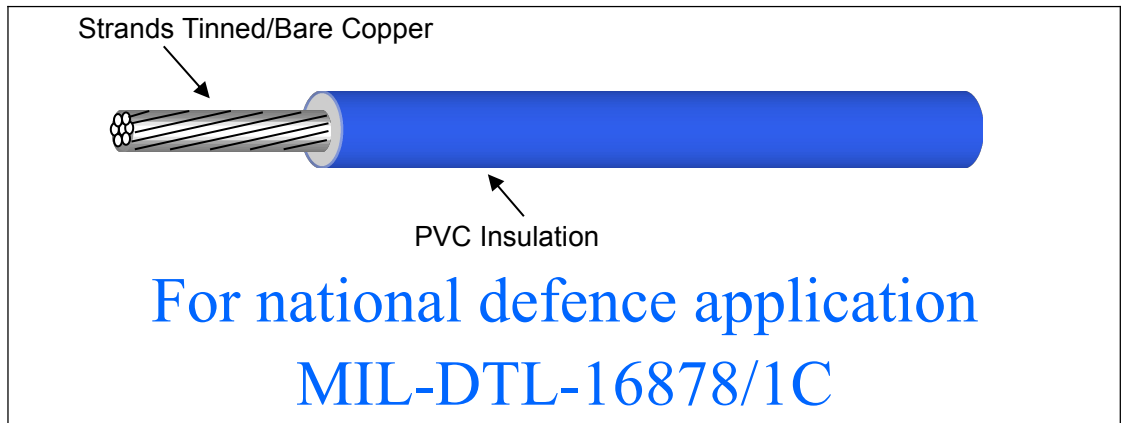
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878

Outline:



Wire structure description:
 Conductor: Tinned /Bare copper ;
 Insulation materials: PVC Insulation

For national defence application
 Rated temperature: 105°C Rated voltage:600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Max.	Min.
M16878/1BAA*	32	1/0.203	0.203	0.25	0.762	0.610
M16878/1BAB*	32	7/0.079	0.241	0.25	0.813	0.660
M16878/1BBA*	30	1/0.254	0.254	0.25	0.813	0.660
M16878/1BBB*	30	7/0.102	0.305	0.25	0.864	0.711
M16878/1BCA*	28	1/0.320	0.33	0.25	0.889	0.737
M16878/1BCB*	28	7/0.127	0.381	0.25	0.94	0.787
M16878/1BDA*	26	1/0.404	0.406	0.25	0.965	0.813
M16878/1BDB*	26	7/0.160	0.483	0.25	1.041	0.889
M16878/1BDE*	26	19/0.102	0.533	0.25	1.041	0.889
M16878/1BEA*	24	1/0.511	0.508	0.25	1.092	0.914
M16878/1BEB*	24	7/0.203	0.61	0.25	1.194	1.016
M16878/1BEE*	24	19/0.127	0.66	0.25	1.194	1.016
M16878/1BFA*	22	1/0.643	0.635	0.25	1.219	1.041
M16878/1BFB*	22	7/0.254	0.762	0.25	1.346	1.168
M16878/1BFE*	22	19/0.160	0.813	0.25	1.346	1.168
M16878/1BGA*	20	1/0.813	0.813	0.25	1.397	1.219
M16878/1BGB*	20	7/0.320	0.965	0.25	1.549	1.372
M16878/1BGE*	20	19/0.203	1.041	0.25	1.549	1.372
M16878/1BHA*	18	1/1.020	1.016	0.25	1.6	1.422
M16878/1BHB*	18	7/0.404	1.245	0.25	1.829	1.651
M16878/1BHE*	18	19/0.254	1.295	0.25	1.829	1.651
M16878/1BJA*	16	1/1.290	1.295	0.25	1.905	1.702
M16878/1BJE*	16	19/0.287	1.499	0.25	2.108	1.905
M16878/1BKA*	14	1/1.630	1.626	0.25	2.235	2.032
M16878/1BKE*	14	19/0.361	1.829	0.25	2.438	2.235

Marking: NO MARKING

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- Ft/roll			3F
14~16AWG	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
18~32AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、Excellent mechanical properties
- b、Excellent thermal stability
- c、Low temperature soft good performance
- d、Good flame retardancy
- e、Of high resistance to chemicals
- f、Chemistry stability is good
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- j、Excellent resistance to impact ability

2. Electrical Properties

- a、Electrical insulation good
- b、Good the dielectric properties

3. Processing properties

- a、Using the hot extrusion processing
- b、Can be twisted pair and multi-core
- c、Good processing properties Harness
- d、Harness processing process good compatibility
- e、According to UL standard design

4. Environmental protection

- a、ROHS/REACH compliant

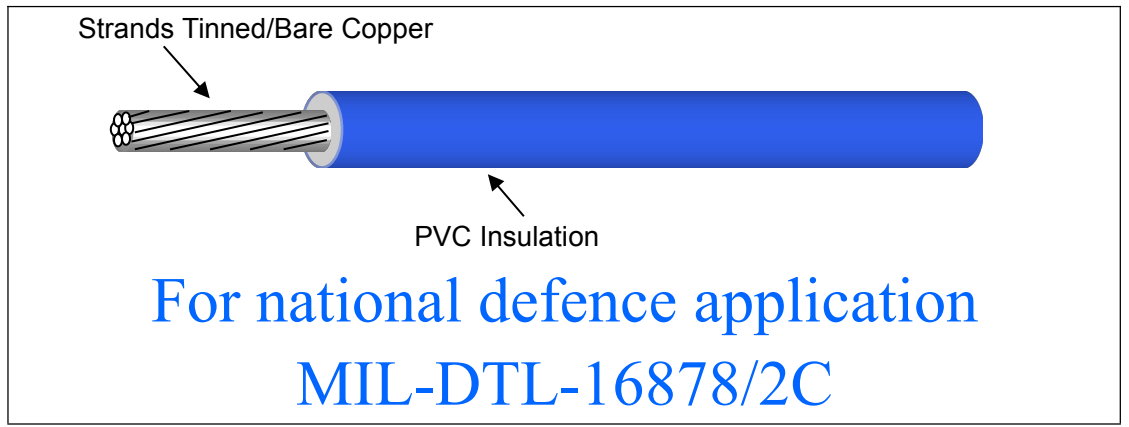
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878/2C

Outline:



Wire structure description:
 Conductor: Tinned /Bare copper ;
 Insulation materials: PVC Insulation

For national defence application
 Rated temperature: 105°C Rated voltage:1000V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Max.	Min.
M16878/2BDA*	26	1/0.404	0.406	0.44	1.372	1.168
M16878/2BDB*	26	7/0.160	0.483	0.44	1.448	1.245
M16878/2BDE*	26	19/0.102	0.533	0.44	1.448	1.245
M16878/2BEA*	24	1/0.511	0.508	0.44	1.473	1.270
M16878/2BEB*	24	7/0.203	0.610	0.44	1.575	1.372
M16878/2BEE*	24	19/0.127	0.660	0.44	1.575	1.372
M16878/2BFA*	22	1/0.643	0.635	0.44	1.626	1.397
M16878/2BFB*	22	7/0.254	0.762	0.44	1.727	1.524
M16878/2BFE*	22	19/0.160	0.838	0.44	1.727	1.524
M16878/2BGA*	20	1/0.813	0.813	0.44	1.778	1.575
M16878/2BGB*	20	7/0.320	0.965	0.44	1.930	1.727
M16878/2BGC*	20	10/0.254	0.965	0.44	1.930	1.727
M16878/2BGE*	20	19/0.203	1.041	0.44	1.930	1.727
M16878/2BHA*	18	1/1.020	1.016	0.44	2.007	1.778
M16878/2BHB*	18	7/0.404	1.245	0.44	2.210	2.007
M16878/2BHD*	18	16/0.254	1.194	0.44	2.159	1.956
M16878/2BHE*	18	19/0.251	1.295	0.44	2.210	2.007
M16878/2BJA*	16	1/1.290	1.295	0.44	2.261	2.032
M16878/2BJE*	16	19/0.287	1.499	0.44	2.464	2.261
M16878/2BJF*	16	26/0.254	1.575	0.44	2.540	2.337
M16878/2BKA*	14	1/1.630	1.626	0.44	2.591	2.388
M16878/2BKE*	14	19/0.361	1.829	0.44	2.794	2.591
M16878/2BKH*	14	41/0.254	2.032	0.44	2.997	2.794
M16878/2BLA*	12	1/2.050	2.057	0.44	3.023	2.794
M16878/2BLE*	12	19/0.455	2.311	0.44	3.277	3.073
M16878/2BLG*	12	37/0.320	2.261	0.44	3.226	3.023
M16878/2BLJ*	12	65/0.254	2.489	0.44	3.454	3.251

Marking: NO MARKING

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- Ft/roll			3F
12~16AWG	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
18~26AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1.Physical performance

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2.Electrical Properties

- a、Electrical insulation good
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3.Processing properties

- a、Using the hot extrusion processing
- b、Can be twisted pair and multi-core
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- e、According to UL standard design

4.Environmental protection

- a、ROHS/REACH compliant

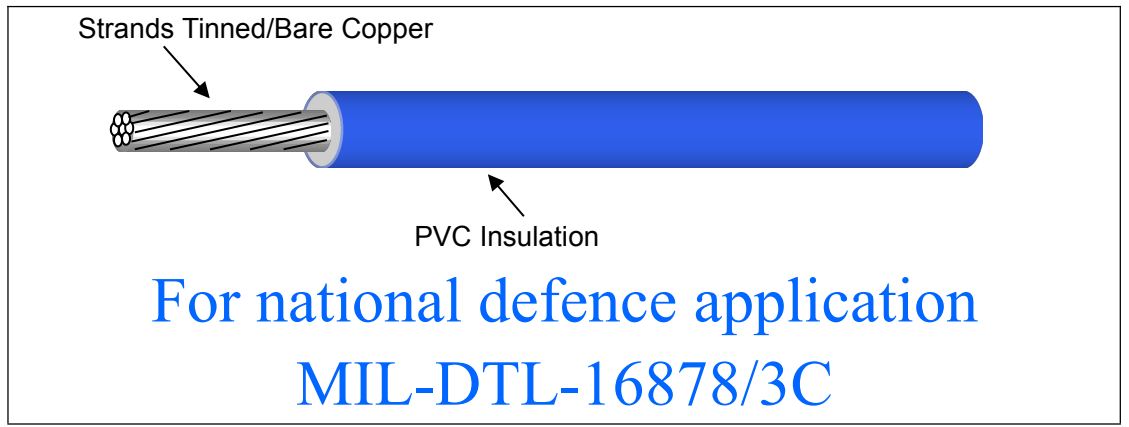
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878/3C

Outline:



Wire structure description:
 Conductor: Tinned /Bare copper ;
 Insulation materials: PVC Insulation

For national defence application
 Rated temperature: 105°C Rated voltage:3000V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Max.	Min.
M16878/3BAA*	32	1/0.203	0.203	0.25	0.762	0.610
M16878/3BEA*	24	1/0.511	0.511	0.79	2.184	1.803
M16878/3BEB*	24	7/0.203	0.610	0.79	2.286	1.905
M16878/3BEE*	24	19/0.127	0.660	0.79	2.286	1.905
M16878/3BFA*	22	1/0.643	0.645	0.79	2.311	1.930
M16878/3BFB*	22	7/0.254	0.762	0.79	2.438	2.057
M16878/3BFE*	22	19/0.160	0.813	0.79	2.438	2.057
M16878/3BGA*	20	1/0.813	0.813	0.79	2.489	2.108
M16878/3BGB*	20	7/0.320	0.965	0.79	2.642	2.261
M16878/3BGE*	20	19/0.203	1.041	0.79	2.642	2.261
M16878/3BHA*	18	1/1.020	1.024	0.79	2.692	2.311
M16878/3BHB*	18	7/0.404	1.245	0.79	2.921	2.540
M16878/3BHE*	18	19/0.251	1.295	0.79	2.921	2.540
M16878/3BJA*	16	1/1.290	1.290	0.79	2.972	2.631
M16878/3BJE*	16	19/0.287	1.499	0.79	3.175	2.794
M16878/3BJF*	16	26/0.254	1.575	0.79	3.251	2.870
M16878/3BKA*	14	1/1.630	1.628	0.79	3.302	2.921
M16878/3BKE*	14	19/0.361	1.829	0.79	3.505	3.124
M16878/3BKH*	14	41/0.254	2.032	0.79	3.708	3.327
M16878/3BLA*	12	1/2.050	2.052	0.94	4.039	3.683
M16878/3BLE*	12	19/0.455	2.337	0.94	4.343	3.962
M16878/3BLG*	12	37/0.320	2.261	0.94	4.267	3.886
M16878/3BLJ*	12	65/0.254	2.489	0.94	4.496	4.115
M16878/3BMG*	10	37/0.404	5.410	0.94	4.826	4.445
M16878/3BMK*	10	105/0.254	6.807	0.94	5.232	4.851
M16878/3BNL*	8	133/0.287	8.687	1.02	6.502	6.121
M16878/3BPL*	6	133/0.361	9.703	1.02	7.645	7.264
M16878/3BRL*	4	133/0.455	10.947	1.14	9.347	8.839
M16878/3BSP*	2	665/0.254	0.203	1.14	11.227	10.719
M16878/3BTR*	1	817/0.254	0.511	1.27	12.497	11.989
M16878/3BUS*	0	1045/0.254	0.610	1.32	13.843	13.335

Marking: NO MARKING
SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- Ft/roll		
0~10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
12~16AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
18~32AWG	□ 500Ft	□ 1000Ft	■ 2000Ft



According to customer requirements for packaging packaging

CHARACTER:

1.Physical performance

- a、 Good elasticity, softness
- b、 Good adsorption ability
- c、 Good heat resistance
- d、 Good cold resistance
- e、 Good weather
- f、 Chemistry stability is good
- j、 Good thermal performance

2.Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3.Processing properties

- a、 Use cold extrusion processing
- b、 Or use the high temperature vulcanization process
- c、 Good processing properties Harness
- d、 Harness processing process good compatibility
- e、 According to UL standard design

4.Environmental protection

- a、 ROHS/REACH compliant
- b、 Inodorous Atoxic

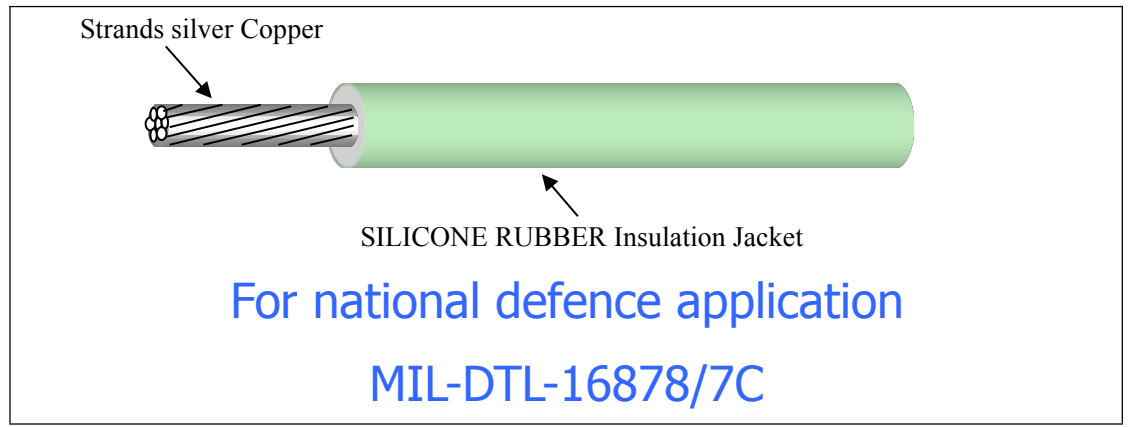
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878/7C 11 August 2000

Outline:



Wire structure description:
 Conductor: silver copper ;
 Insulation materials: SILICONE RUBBER Insulation

IFor national defence application
 Rated temperature: 200℃ rated voltage: 600V

STYLE	standard AWG	Conductor size (No./ mm) ±0.005mm	Conductor Dia.(mm)	insulation thickness (mm)	Overall diameter (mm)	
					Max	Min
M16878/7BEB*	24	7/0.203	0.610	0.40	1.473	1.321
M16878/7BFB*	22	7/0.254	0.762	0.40	1.626	1.473
M16878/7BGB*	20	7/0.320	0.965	0.40	1.829	1.676
M16878/7BGC*	20	10/0.254	0.965	0.40	1.829	1.676
M16878/7BHB*	18	7/0.404	1.219	0.40	2.083	1.930
M16878/7BHD*	18	16/0.254	1.219	0.40	2.083	1.930
M16878/7BJE*	16	19/0.287	1.448	0.40	2.311	2.159
M16878/7BJF*	16	26/0.254	1.448	0.40	2.311	2.159
M16878/7BKE*	14	19/0.361	1.829	0.60	3.099	2.946
M16878/7BKH*	14	41/0.254	1.829	0.60	3.099	2.946
M16878/7BLE*	12	19/0.455	2.311	0.60	3.581	3.429
M16878/7BLJ*	12	65/0.254	2.311	0.60	3.581	3.429
M16878/7BMK*	10	105/0.254	2.819	0.60	4.216	3.962

Marking: NO MARKING

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- Ft/roll			
10-16AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft
18~24AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft



According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、Excellent mechanical properties
- b、Excellent thermal stability
- c、Low temperature soft good performance
- d、Good flame retardancy
- e、Of high resistance to chemicals
- f、Chemistry stability is good
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2. Electrical Properties

- a、Electrical insulation good
- b、Has the very high resistivity

3. Processing properties

- a、Use cold extrusion processing
- b、Or use the high temperature vulcanization process
- c、Good processing properties Harness

4. Environmental protection

- a、ROHS/REACH compliant
- b、Inodorous Atoxic

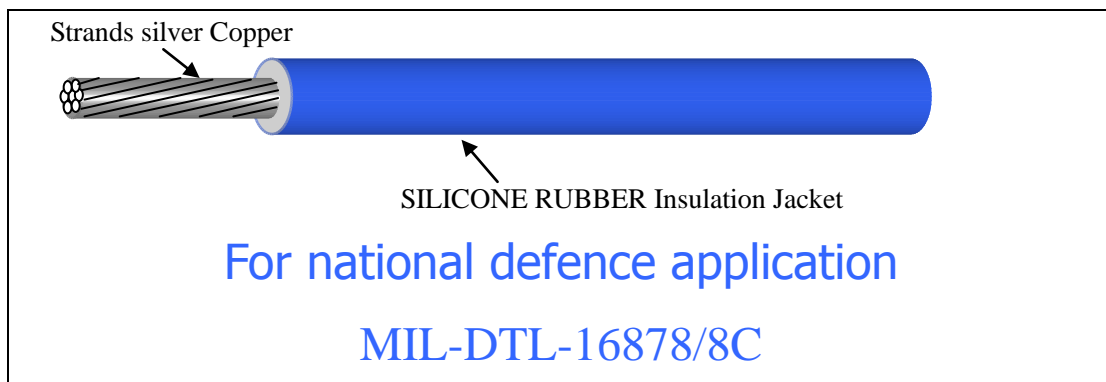
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878/8C 11 August 2000

Outline:



Wire structure description:
 Conductor: silver copper ;
 Insulation materials: SILICONE RUBBER Insulation

IFor national defence application
 Rated temperature: 200℃ rated voltage: 1000V

STYLE	standa rd AWG	Conductor size (No./ mm) ±0.005mm	Conductor Dia.(mm)	insulatio n thicknes s (mm)	verall diameter (mm)	
					Min	Max
M16878/8BEB*	24	7/0.203	0.610	0.80	2.108	2.311
M16878/8BFB*	22	7/0.254	0.762	0.80	2.261	2.464
M16878/8BGB*	20	7/0.320	0.965	0.80	2.464	2.667
M16878/8BGC*	20	10/0.254	0.965	0.80	2.464	2.667
M16878/8BHB*	18	7/0.404	1.219	0.80	2.718	2.921
M16878/8BHD*	18	16/0.254	1.219	0.80	2.718	2.921
M16878/8BJE*	16	19/0.287	1.448	0.80	2.946	3.150
M16878/8BJF*	16	26/0.254	1.448	0.80	2.946	3.150
M16878/8BKE*	14	19/0.361	1.829	1.20	4.089	4.343
M16878/8BKH*	14	41/0.254	1.829	1.20	4.089	4.343
M16878/8BLE*	12	19/0.455	2.311	1.20	4.572	4.826
M16878/8BLJ*	12	65/0.254	2.311	1.20	4.572	4.826
M16878/8BMG*	10	37/0.404	2.819	1.20	5.080	5.334
M16878/8BMK*	10	105/0.254	3.048	1.20	5.080	5.334
M16878/8BNL*	8	133/0.287	4.293	1.60	7.137	7.798
M16878/8BPL*	6	133/0.361	5.410	1.60	8.280	8.915
M16878/8BRL*	4	133/0.455	6.833	1.60	9.703	10.338
M16878/8BSL*	2	133/0.574	8.509	1.60	11.379	12.014
M16878/8BTN*	1	259/0.455	9.601	2.00	13.183	13.970
M16878/8BUN*	1/0	259/0.511	10.770	2.00	14.351	15.138
M16878/8BWN*	2/0	259/0.574	12.116	2.00	15.697	16.485
M16878/8BYN*	3/0	259/0.643	13.538	2.00	17.628	18.415
M16878/8BZN*	4/0	259/0.724	15.265	2.00	18.847	19.634

Marking: NO MARKING

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE					
Part No.	Packing- Ft/roll				3F
4/0-8AWG	<input type="checkbox"/> 250Ft	<input checked="" type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
10~14AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
16~24AWG	<input type="checkbox"/> 250Ft	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

a、excellent mechanical properties:

Tensile strength ≥ 9.65MPa, elongation at break ≥ 100%

After aging:

Condition: 95 ± 1.0°C / 48H

Maximum rate of change in tensile strength ± 25%

Maximum rate of change of break elongation ± 25%

b、Flame retardancy: VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c、Low temperature bending: -65°C ± 1°C, 4h, no crack on the surface of the sample is qualified

2. Electrical performance

a、rated temperature: 75°C **rated voltage:** 600V

b、dielectric withstand voltage: 2.2KV AC, No breakdown

c、Spark test: 3.4KV, no breakdown

3. Processing performance

a、 suitable for all conventional wire harness processing

b、 If you have special needs, please let us know.

4. Environmental protection

a、 ROHS/REACH compliant

b、 nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878/10E 11 August 2000

Outline:

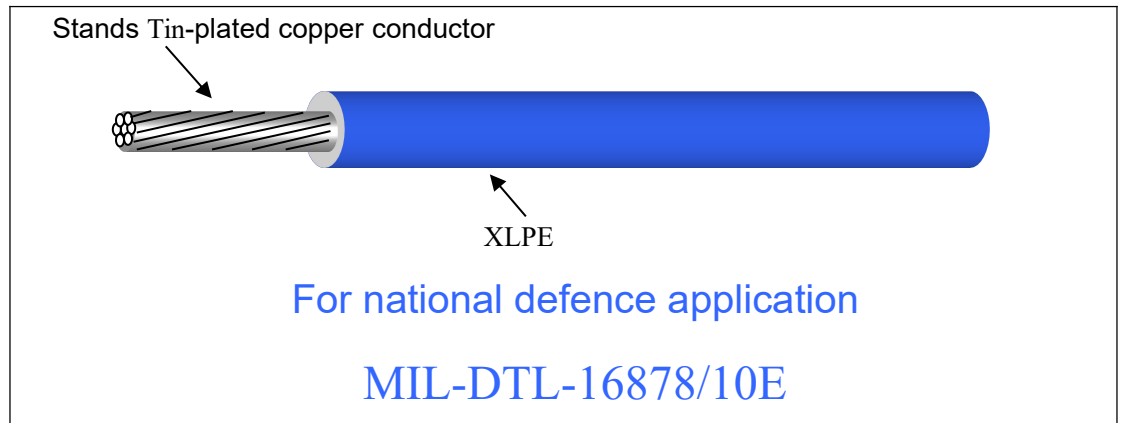
SAE 色板

*顏色表				
00-黑色	01-白色	02-红色	03-黄色	04-绿色
05-蓝色	06-棕色	07-灰色	08-橙色	09-紫色

包装

*包装			
型号	包装方式- FT/roll		
2/0-8AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
10~16AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
18-28AWG	□ 500Ft	□ 1000Ft	■ 2000Ft

根据客户要求包装



Wire structure description:

Conductor: Tin-plated copper

Insulation materials: XLPE Insulation:

For national defence application
Rated temperature: 75°C Rated voltage: 600V

PIN	Wire size AWG	Stranding	Conductor		Conductor or Diameter (mm)	Insulated Thickness Nominal (mm)	Finished Wire Diameter (mm)	
			Material	Coating			Min	Max
M16878/10BDB*	26	7/0.16	Copper	Tin	0.488	0.33	1.048	1.248
M16878/10BDE*	26	19/0.1	Copper	Tin	0.503	0.33	1.063	1.263
M16878/10BEA*	24	1/0.511	Copper	Tin	0.511	0.33	1.041	1.245
M16878/10BEB*	24	7/0.203	Copper	Tin	0.610	0.33	1.143	1.346
M16878/10BEE*	24	19/0.127	Copper	Tin	0.635	0.33	1.143	1.346
M16878/10BFA*	22	1/0.643	Copper	Tin	0.645	0.33	1.194	1.397
M16878/10BFB*	22	7/0.254	Copper	Tin	0.762	0.33	1.321	1.524
M16878/10BFE*	22	19/0.160	Copper	Tin	0.813	0.33	1.321	1.524
M16878/10BGA*	20	1/0.813	Copper	Tin	0.813	0.35	1.422	1.626
M16878/10BGB*	20	7/0.320	Copper	Tin	0.965	0.35	1.575	1.778
M16878/10BGE*	20	19/0.203	Copper	Tin	1.016	0.35	1.575	1.778
M16878/10BHA*	18	1/1.020	Copper	Tin	1.024	0.35	1.626	1.829
M16878/10BHB*	18	7/0.404	Copper	Tin	1.219	0.35	1.829	2.032
M16878/10BHD*	18	16/0.254	Copper	Tin	1.194	0.35	1.803	2.007
M16878/10BHE*	18	19/0.254	Copper	Tin	1.270	0.35	1.829	2.032
M16878/10BJA*	16	1/1.290	Copper	Tin	1.290	0.38	1.956	2.159
M16878/10BJE*	16	19/0.287	Copper	Tin	1.448	0.38	2.108	2.311
M16878/10BJF*	16	26/0.254	Copper	Tin	1.524	0.38	2.184	2.388
M16878/10BKA*	14	1/1.630	Copper	Tin	1.628	0.43	2.388	2.591
M16878/10BKE*	14	19/0.361	Copper	Tin	1.829	0.43	2.591	2.794
M16878/10BLE*	12	19/0.455	Copper	Tin	2.311	0.43	3.073	3.277
M16878/10BLJ*	12	65/0.254	Copper	Tin	2.362	0.43	3.124	3.327
M16878/10BMG*	10	37/0.404	Copper	Tin	2.819	0.51	3.708	3.962
M16878/10BMK*	10	105/0.254	Copper	Tin	3.048	0.51	3.937	4.191
M16878/10BNL*	8	133/0.287	Copper	Tin	4.293	0.66	5.486	5.740
M16878/10BPL*	6	133/0.361	Copper	Tin	5.410	0.80	6.858	7.163
M16878/10BRL*	4	133/0.455	Copper	Tin	6.833	0.93	8.509	8.865
M16878/10BSL*	2	133/0.574	Copper	Tin	8.509	0.93	10.135	10.541
M16878/10BTM*	1	259/0.455	Copper	Tin	9.601	1.00	11.354	11.811
M16878/10BUM*	1/0	259/0.511	Copper	Tin	10.770	1.00	12.573	12.979
M16878/10BWM	2/0	259/0.574	Copper	Tin	12.116	1.25	14.351	14.859

标志: 无标志

CHARACTER:

1. Physical performance

a、 excellent mechanical properties:

Tensile strength $\geq 12.4\text{MPa}$, elongation at break $\geq 100\%$

After aging:

Condition: $136 \pm 1.0^\circ\text{C} / 96\text{H}$

Tensile strength residual rate $\geq 25\%$ elongation at break $\geq 25\%$

b、 Flame retardancy: VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c、 Low temperature bending: $-55^\circ\text{C} \pm 2^\circ\text{C} / 4\text{H}$, no crack on the surface of the sample is qualified

2. Electrical performance

a、 rated temperature: 105°C rated voltage: 600V

b、 Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 2.0KV

c、 dielectric withstand voltage: 3.4KV, 60 seconds without breakdown

3.Processing properties

a、 Use cold extrusion processing

b、 Or use the high temperature vulcanization process

c、 Good processing properties Harness

d、 Harness processing process good compatibility

4.Environmental protection

a、 ROHS/REACH compliant

b、 Inodorous Atoxic

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-DTL-16878/36A(NAVY) 11 September 1992

Outline:

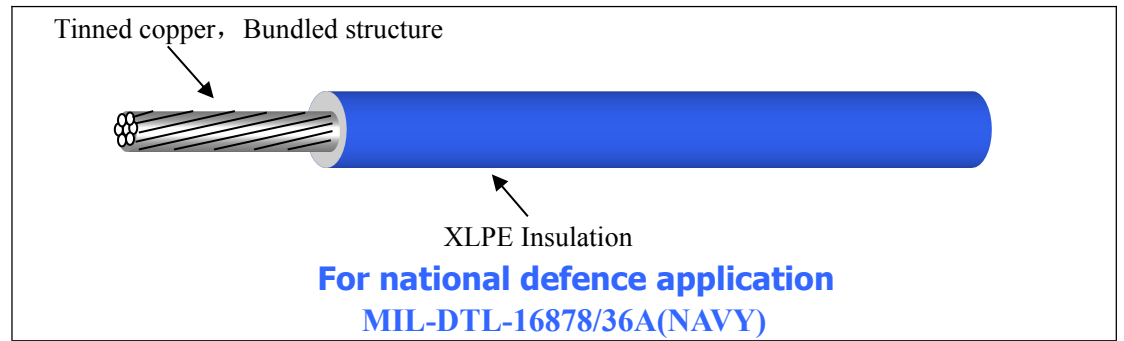
包装

*PACKAGE			
Part No.	Packing- Ft/roll		
14~16AWG	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft
18-32AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft

According to customer requirements for packaging packaging

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET



Wire structure description:

Conductor: Tinned copper

Insulation materials: XLPE Insulation

For national defence application

Rated temperature: 105°C Rated voltage: 600V

STYLE	standard AWG	Conductor size (No./ mm) $\pm 0.005\text{mm}$	Conductor		Conductor Dia.(mm)	insulation thickness (mm)	Overall diameter (mm)	
			Material	Coating			Min.	Max.
M16878/36BAA*	32	1/0.203	Copper	Tin	0.203	0.25	0.610	0.762
M16878/36BAB*	32	7/0.079	Copper	Tin	0.254	0.25	0.660	0.813
M16878/36BBA*	30	1/0.254	Copper	Tin	0.254	0.25	0.660	0.813
M16878/36BBB*	30	7/0.102	Copper	Tin	0.305	0.25	0.660	0.864
M16878/36BCA*	28	1/0.320	Copper	Tin	0.320	0.25	0.711	0.889
M16878/36BCB*	28	7/0.127	Copper	Tin	0.380	0.25	0.737	0.940
M16878/36BDA*	26	1/0.404	Copper	Tin	0.404	0.25	0.787	0.965
M16878/36BDB*	26	7/0.160	Copper	Tin	0.483	0.25	0.813	1.041
M16878/36BDE*	26	19/0.102	Copper	Tin	0.533	0.25	0.889	1.041
M16878/36BEA*	24	1/0.511	Copper	Tin	0.511	0.25	0.889	1.092
M16878/36BEB*	24	7/0.203	Copper	Tin	0.610	0.25	0.914	1.194
M16878/36BEE*	24	19/0.127	Copper	Tin	0.660	0.25	1.016	1.194
M16878/36BFA*	22	1/0.643	Copper	Tin	0.643	0.25	1.041	1.219
M16878/36BFB*	22	7/0.254	Copper	Tin	0.762	0.25	1.168	1.346
M16878/36BFE*	22	19/0.16	Copper	Tin	0.813	0.25	1.168	1.346
M16878/36BGA*	20	1/0.813	Copper	Tin	0.813	0.25	1.219	1.397
M16878/36BGB*	20	7/0.320	Copper	Tin	0.965	0.25	1.372	1.549
M16878/36BGE*	20	19/0.203	Copper	Tin	1.041	0.25	1.372	1.549
M16878/36BHA*	18	1/1.020	Copper	Tin	1.024	0.25	1.422	1.600
M16878/36BHB*	18	7/0.404	Copper	Tin	1.245	0.25	1.651	1.829
M16878/36BHE*	18	19/0.254	Copper	Tin	1.295	0.25	1.651	1.829
M16878/36BJA*	16	1/1.290	Copper	Tin	1.290	0.25	1.702	1.905
M16878/36BJE*	16	19/0.287	Copper	Tin	1.499	0.25	1.905	2.108
M16878/36BKA*	14	1/1.630	Copper	Tin	1.628	0.25	2.032	2.235
M16878/36BKE*	14	19/0.361	Copper	Tin	1.829	0.25	2.235	2.438

Marking: NO MARKING

CHARACTER:

1. Physical performance

- a、Excellent mechanical properties
- b、Excellent thermal stability
- c、Low temperature soft good performance
- d、Good flame retardancy
- e、Of high resistance to chemicals
- f、Chemistry stability is good
- b、Good resistance to high temperature of the engine fluid
- j、Excellent resistance to impact ability

2. Electrical Properties

- a、Electrical insulation good
- b、Good the dielectric properties

3. Processing properties

- a、Using the hot extrusion processing
- b、Can be twisted pair and multi-core
- c、Good processing properties Harness
- d、Harness processing process good compatibility

4. Environmental protection

- a、ROHS/REACH compliant

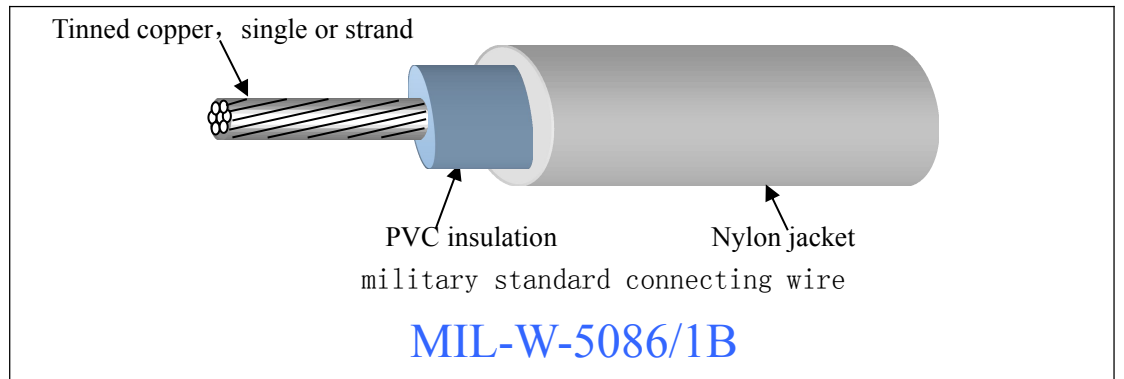
SHOULD BE USED:

military standard connecting wire

REFERENCE:

MIL-W-5086/1B

Outline:



Wire structure description:

Conductor: Tinned /Bare copper ;
Insulation materials: PVC
Jacket: Nylon

military standard connecting wire
Rated Temperature : 105°C Rated voltage: 60V

PIN.	AWG	Conduct or size (No./mm) ±0.005	Conductor Dia.(mm)	PVC Insulation thickness (mm) Nom	Nylon Insulation thickness (mm) Nom	Over diameter (mm)	
				NOM	NOM	NOM	Tole
M5086/1B	22	19/0.15	0.76	0.34	0.15	1.73	±0.1
M5086/1B	20	19/0.19	0.96	0.36	0.15	1.98	±0.1
M5086/1B	18	19/0.251	1.26	0.34	0.15	2.24	±0.1
M5086/1B	16	19/0.287	1.45	0.37	0.15	2.49	±0.1
M5086/1B	14	19/0.361	1.82	0.43	0.15	2.97	±0.13
M5086/1B	12	37/0.33	2.32	0.43	0.15	3.48	±0.13
M5086/1B	10	37/0.42	2.89	0.43	0.15	4.04	±0.13

Marking: NO MARKING

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- Ft/roll		
10~22AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft
3F			
According to customer requirements for packaging packaging			

CHARACTER:

1.Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2.Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3.Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4.Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-16878/4C(NAVY)

Outline:

SAE COLOR SERIES

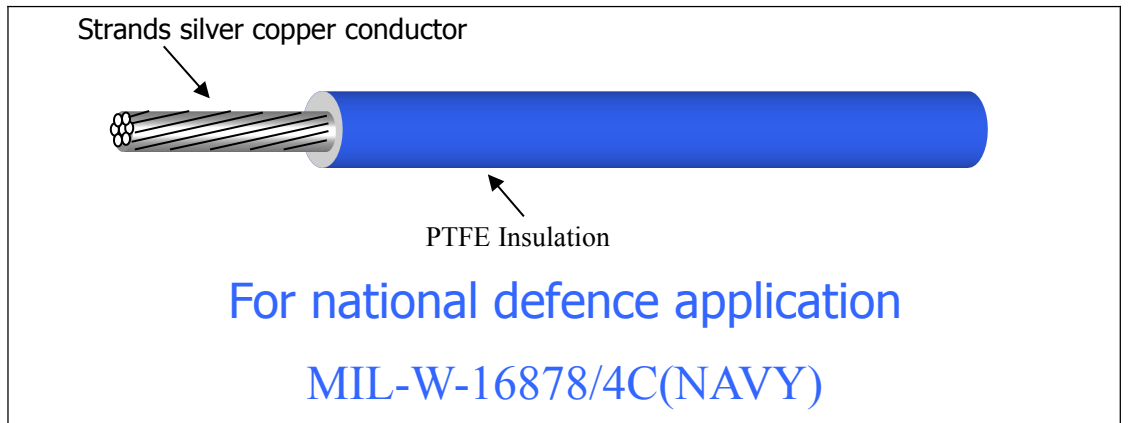
* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
12~16AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
18~30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft

3F

According to customer requirements for packaging packaging



Wire structure description:

Conductor: Silver copper;
Jacket insulation materials:PTFE Insulation;

For national defence application
Rated temperature: 200°C Rated voltage:600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M16878/4BAA*	32	1/0.203	Copper	Silver	0.203	0.25	0.635	0.838
M16878/4DAA*	32	1/0.203	H.S.C.A	Silver	0.203	0.25	0.635	0.838
M16878/4CAA*	32	1/0.203	C.C.steel	Silver	0.203	0.25	0.635	0.838
M16878/4BAB*	32	7/0.079	Copper	Silver	0.254	0.25	0.660	0.864
M16878/4DAB*	32	7/0.079	H.S.C.A	Silver	0.254	0.25	0.660	0.864
M16878/4BBA*	30	1/0.254	Copper	Silver	0.254	0.25	0.660	0.864
M16878/4DBA*	30	1/0.254	H.S.C.A	Silver	0.254	0.25	0.660	0.864
M16878/4CBA*	30	1/0.254	C.C.steel	Silver	0.254	0.25	0.660	0.864
M16878/4BBB*	30	7/0.102	Copper	Silver	0.305	0.25	0.711	0.914
M16878/4DBB*	30	7/0.102	H.S.C.A	Silver	0.305	0.25	0.711	0.914
M16878/4BCA*	28	1/0.320	Copper	Silver	0.320	0.25	0.737	0.940
M16878/4DCA*	28	1/0.320	H.S.C.A	Silver	0.320	0.25	0.737	0.940
M16878/4CCA*	28	1/0.320	C.C.steel	Silver	0.320	0.25	0.737	0.940
M16878/4CCB*	28	7/0.127	Copper	Silver	0.380	0.25	0.797	1.000
M16878/4BDA*	26	1/0.404	Copper	Silver	0.404	0.25	0.813	1.016
M16878/4DDA*	26	1/0.404	H.S.C.A	Silver	0.404	0.25	0.813	1.016
M16878/4CDA*	26	1/0.404	C.C.Steel	Silver	0.404	0.25	0.813	1.016
M16878/4BDB*	26	7/0.160	Copper	Silver	0.483	0.25	0.889	1.092
M16878/4DDB*	26	7/0.160	H.S.C.A	Silver	0.483	0.25	0.889	1.092
M16878/4BEA*	24	1/0.511	Copper	Silver	0.511	0.25	0.914	1.118
M16878/4DEA*	24	1/0.511	H.S.C.A	Silver	0.511	0.25	0.914	1.118
M16878/4CEA*	24	1/0.511	C.C.Steel	Silver	0.511	0.25	0.914	1.118
M16878/4BEB*	24	7/0.203	Copper	Silver	0.610	0.25	1.016	1.219
M16878/4DEB*	24	7/0.203	H.S.C.A	Silver	0.610	0.25	1.016	1.219
M16878/4BEE*	24	19/0.127	Copper	Silver	0.610	0.25	1.016	1.219
M16878/4BFA*	22	1/0.643	Copper	Silver	0.645	0.25	1.041	1.245
M16878/4DFA*	22	1/0.643	H.S.C.A	Silver	0.645	0.25	1.041	1.245
M16878/4CFA*	22	1/0.643	C.C.Steel	Silver	0.645	0.25	1.041	1.245
M16878/4BFB*	22	7/0.254	Copper	Silver	0.762	0.25	1.168	1.372
M16878/4BFE*	22	19/0.16	Copper	Silver	0.804	0.25	1.168	1.372
M16878/4DFB*	22	7/0.254	H.S.C.A	Silver	0.762	0.25	1.168	1.372
M16878/4BGA*	20	1/0.813	Copper	Silver	0.813	0.25	1.219	1.422
M16878/4DGA*	20	1/0.813	H.S.C.A	Silver	0.813	0.25	1.219	1.422
M16878/4BGB*	20	7/0.320	Copper	Silver	0.965	0.25	1.372	1.575
M16878/4DGB*	20	7/0.320	H.S.C.A	Silver	0.965	0.25	1.372	1.575
M16878/4BGE*	20	19/0.203	Copper	Silver	1.022	0.25	1.372	1.575
M16878/4BHA*	18	1/1.020	Copper	Silver	1.024	0.25	1.422	1.676
M16878/4BHB*	18	7/0.404	Copper	Silver	1.219	0.25	1.626	1.880
M16878/4BHE*	18	19/0.251	Copper	Silver	1.219	0.25	1.626	1.880
M16878/4BJA*	16	1/1.290	Copper	Silver	1.290	0.25	1.702	2.057
M16878/4BJE*	16	19/0.287	Copper	Silver	1.440	0.25	1.850	2.100
M16878/4BKE*	14	19/0.361	Copper	Silver	1.829	0.25	2.241	2.600
M16878/4BLG*	12	37/0.320	Copper	Silver	2.261	0.25	2.667	3.023

Marking: no marking

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-16878

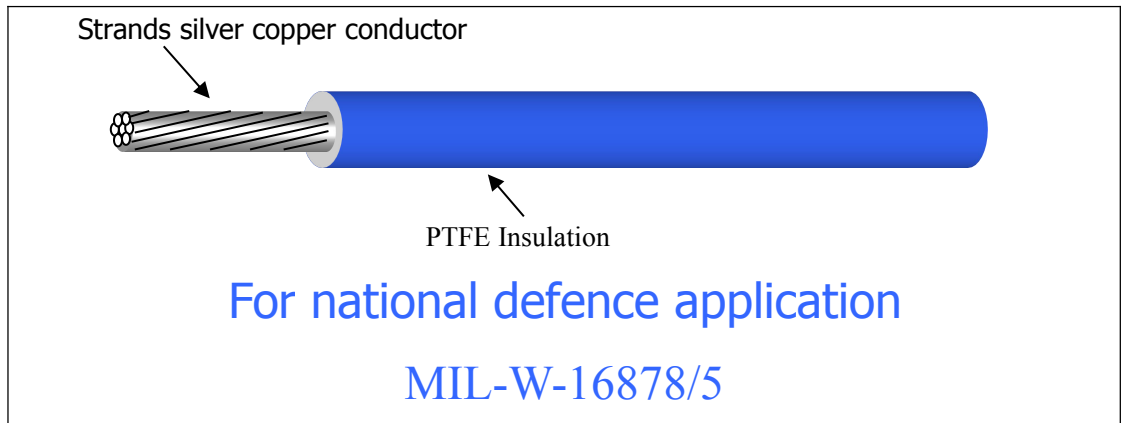
Outline:

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
12~16AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
18~30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft
According to customer requirements for packaging packaging			



Wire structure description:
 Conductor: Silver copper;
 Jacket insulation materials: PTFE Insulation;

For national defence application
 Rated temperature: -40°C ~ 200°C Rated voltage: 1000V

PIN.	STYLE AWG	Conductor size (No./ mm) ±0.005	Conductor		Conduct or Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M16878/5*	16	19/0.287	copper	silver	1.450	0.38	2.410	2.110
M16878/5*	18	19/0.254	copper	silver	1.270	0.38	2.130	1.930
M16878/5*	20	19/0.203	copper	silver	1.020	0.38	1.830	1.630
M16878/5*	22	19/0.16	copper	silver	0.800	0.38	1.860	1.560
M16878/5*	24	19/0.127	copper	silver	0.610	0.38	1.470	1.270

Marking: no marking

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-16878/6

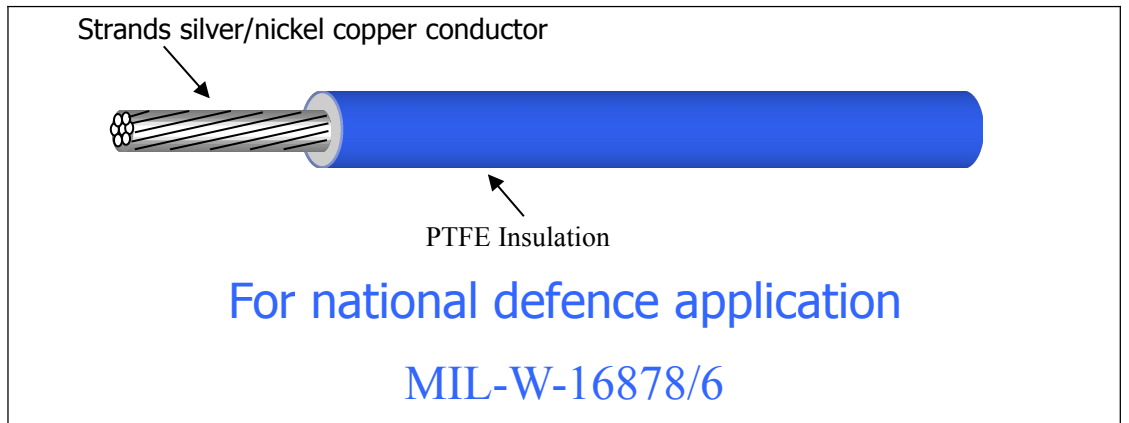
Outline:

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
20~32AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft
3F			
According to customer requirements for packaging packaging			



Wire structure description:
 Conductor: Silver/nickel copper;
 Jacket insulation materials: PTFE Insulation;

For national defence application
 Rated temperature: -55~200℃ Rated voltage: 250V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Nom	min
M16878/6	32	7/40	0.241	0.15	0.541	0.50
M16878/6	30	Solid	0.254	0.15	0.554	0.50
M16878/6	30	7/38	0.312	0.15	0.612	0.55
M16878/6	28	Solid	0.320	0.15	0.620	0.58
M16878/6	28	7/36	0.388	0.15	0.688	0.62
M16878/6	26	Solid	0.404	0.15	0.704	0.65
M16878/6	26	19/38	0.514	0.15	0.814	0.78
M16878/6	26	7/34	0.490	0.15	0.790	0.75
M16878/6	24	7/32	0.620	0.15	0.920	0.85
M16878/6	24	19/36	0.640	0.15	0.940	0.85
M16878/6	22	7/30	0.776	0.15	1.076	0.95
M16878/6	22	19/34	0.800	0.15	1.076	0.95
M16878/6	20	7/28	0.980	0.15	1.27	1.20
M16878/6	20	19/32	1.000	0.15	1.27	1.20

Marking: no marking

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity
- c、 Low dielectric constant 2.1

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-16878/11C

Outline:



Wire structure description:

Conductor: silver copper conductor;
Insulation materials: FEP Insulation

For national defence application
Rated temperature: 200°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M16878/11-BCB	28	7/0.127	COPPER	SILVER	0.39	0.26	0.80	1.00
M16878/11-BCE	28	19/0.08	COPPER	SILVER	0.40	0.26	0.80	1.00
M16878/11-BDB	26	7/0.16	COPPER	SILVER	0.49	0.26	0.90	1.10
M16878/11-BDE	26	19/0.102	COPPER	SILVER	0.51	0.26	0.90	1.10
M16878/11-BEB	24	7/0.203	COPPER	SILVER	0.62	0.26	1.02	1.22
M16878/11-BEE	24	19/0.127	COPPER	SILVER	0.64	0.26	1.02	1.25
M16878/11-BFB	22	7/0.254	COPPER	SILVER	0.78	0.26	1.17	1.37
M16878/11-BFE	22	19/0.16	COPPER	SILVER	0.80	0.26	1.17	1.42
M16878/11-BGB	20	7/0.32	COPPER	SILVER	0.98	0.26	1.38	1.58
M16878/11-BGE	20	19/0.203	COPPER	SILVER	1.02	0.26	1.38	1.58
M16878/11-BHE	18	7/0.404	COPPER	SILVER	1.24	0.28	1.62	1.88
M16878/11-BHE	18	19/0.251	COPPER	SILVER	1.28	0.28	1.62	1.88
M16878/11-BJE	16	19/0.287	COPPER	SILVER	1.44	0.33	1.85	2.20
M16878/11-BKE	14	19/0.361	COPPER	SILVER	1.82	0.33	2.24	2.60
M16878/11-BLE	12	19/0.455	COPPER	SILVER	2.30	0.33	2.72	3.10
M16878/11-BMG	10	37/0.404	COPPER	SILVER	2.84	0.33	3.22	3.58

Marking: NO MARKING

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft

3F

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

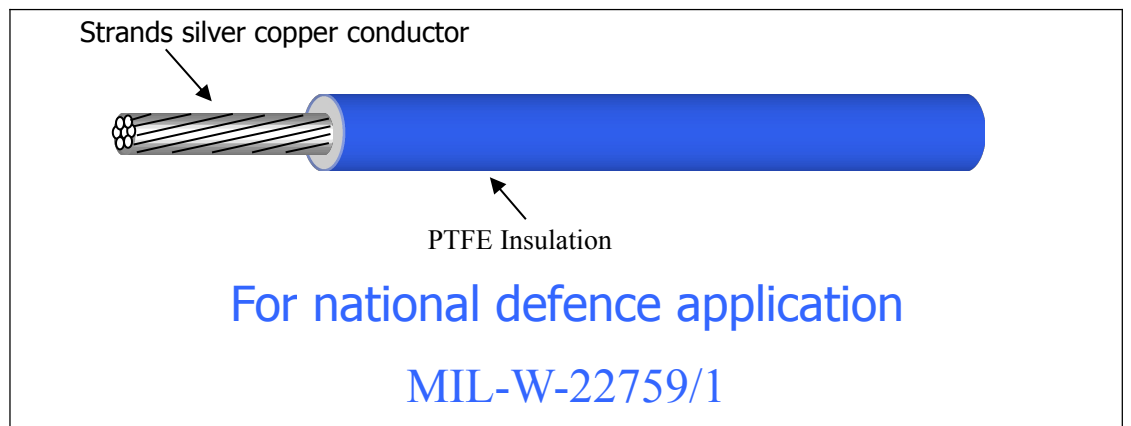
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759

Outline:



Wire structure description:

Conductor: Silver copper;
Jacket insulation materials: PTFE Insulation;

For national defence application
Rated temperature: 200°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M22759/1	4/0	19/111/0.254	copper	Silver	15.45	1.29	17.53	18.54
	3/0	37/45/0.254	copper	Silver	13.78	1.24	15.75	16.76
	2/0	19/70/0.254	copper	Silver	12.27	1.18	14.10	15.11
	1/0	19/55/0.254	copper	Silver	10.88	1.16	12.57	13.59
	1	19/43/0.254	copper	Silver	9.62	1.16	11.56	12.32
	2	19/35/0.254	copper	Silver	8.68	1.00	10.29	11.05
	4	7/19/0.455	copper	Silver	6.87	1.00	8.64	9.40
	6	7/19/0.361	copper	Silver	5.45	1.00	7.19	7.70
	8	7/19/0.287	copper	Silver	4.33	1.00	6.12	6.48
	10	37/0.43	copper	Silver	3.01	0.80	4.42	4.78
	12	37/0.36	copper	Silver	2.52	0.76	3.86	4.11
	14	19/0.36	copper	Silver	1.80	0.80	3.38	3.63
	16	19/0.287	copper	Silver	1.44	0.80	2.92	3.18
	18	19/0.254	copper	Silver	1.27	0.70	2.54	2.79
	20	19/0.203	copper	Silver	1.02	0.70	2.29	2.49
	22	19/0.16	copper	Silver	0.80	0.70	2.03	2.24

*导体为正规绞合

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
2~4/0AWG	■ 250Ft	□ 500Ft	□ 1000Ft
4~8AWG	□ 250Ft	■ 500Ft	□ 2000Ft
22~10AWG	□ 250Ft	□ 500Ft	■ 1000Ft

3F

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

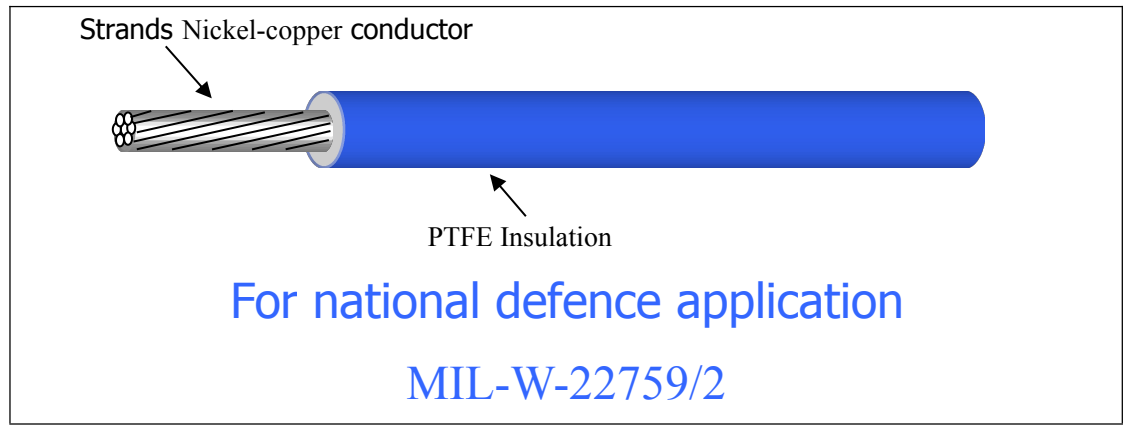
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759

Outline:



Wire structure description:

Conductor: Nickel-copper;
Jacket insulation materials: PTFE Insulation;

For national defence application
Rated temperature: 260°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M22759/2	4/0	19/111/0.254	copper	Silver	15.45	1.29	17.53	18.54
	3/0	37/45/0.254	copper	Silver	13.78	1.24	15.75	16.76
	2/0	19/70/0.254	copper	Silver	12.27	1.18	14.10	15.11
	1/0	19/55/0.254	copper	Silver	10.88	1.16	12.57	13.59
	1	19/43/0.254	copper	Silver	9.62	1.16	11.56	12.32
	2	19/35/0.254	copper	Silver	8.68	1.00	10.29	11.05
	4	7/19/0.455	copper	Silver	6.87	1.00	8.64	9.40
	6	7/19/0.361	copper	Silver	5.45	1.00	7.19	7.70
	8	7/19/0.287	copper	Silver	4.33	1.00	6.12	6.48
	10	37/0.43	copper	Silver	3.01	0.80	4.42	4.78
	12	37/0.36	copper	Silver	2.52	0.76	3.86	4.11
	14	19/0.36	copper	Silver	1.80	0.80	3.38	3.63
	16	19/0.287	copper	Silver	1.44	0.80	2.92	3.18
	18	19/0.254	copper	Silver	1.27	0.70	2.54	2.79
	20	19/0.203	copper	Silver	1.02	0.70	2.29	2.49
	22	19/0.16	copper	Silver	0.80	0.70	2.03	2.24

*导体为正规绞合

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
2~4/0AWG	■ 250Ft	□ 500Ft	□ 1000Ft
4~8AWG	□ 250Ft	■ 500Ft	□ 2000Ft
22~10AWG	□ 250Ft	□ 500Ft	■ 1000Ft

According to customer requirements for packaging packaging



CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 Designed according to M22759 standard

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

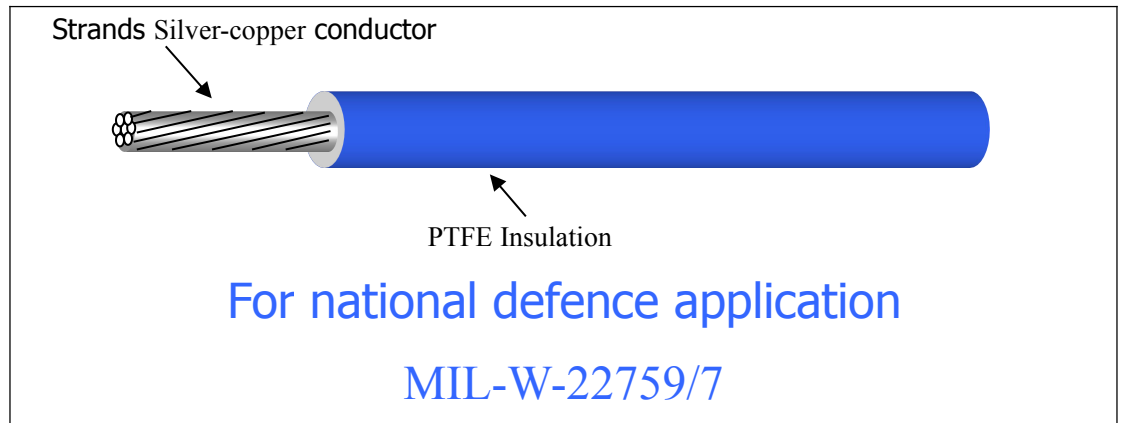
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759/7

Outline:



Wire structure description:
 Conductor: Silver-copper;
 Jacket insulation materials: PTFE Insulation

For national defence application
 Rated temperature: -55~200℃ Rated voltage: 600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Min	Tole.
M22759/7-24	24	19/0.127	0.64	0.46	1.56	±0.10
M22759/7-22	22	19/0.16	0.81	0.52	1.85	±0.10
M22759/7-20	20	19/0.203	1.02	0.53	2.08	±0.10
M22759/7-18	18	19/0.254	1.28	0.53	2.34	±0.10
M22759/7-16	16	19/0.287	1.45	0.57	2.59	±0.10
M22759/7-14	14	19/0.361	1.82	0.54	2.90	±0.15
M22759/7-12	12	19/0.455	2.30	0.55	3.40	±0.15
M22759/7-10	10	37/0.404	2.84	0.59	4.01	±0.15
M22759/7-8	8	133/0.287	3.82	0.99	5.79	±0.20

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
16~24AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft
8~14	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft
According to customer requirements for packaging packaging			



Characteristic:

1.Characteristic:

a、 excellent mechanical properties:

Tensile strength ≥20.7MPa, elongation at break ≥200%

After aging:

Condition: 260 ± 1.0°C / 96H

Tensile strength residual rate ≥85% elongation at break ≥85%

b、 Flame retardancy: VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c、 Low temperature bending: -10°C ± 2°C / 4H, no crack on the surface of the sample is qualified

2. 2.Electrical performance

a、 rated temperature: 260°C rated voltage: 600V

b、 Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 6KV AC

c、 dielectric withstand voltage: 2KV AC, 60 seconds without breakdown

3. Processing performance

a、 suitable for all conventional wire harness processing

b、 If you have special needs, please let us know.

3. . Environmental protection

a、 in line with ROHS/REACH

application:

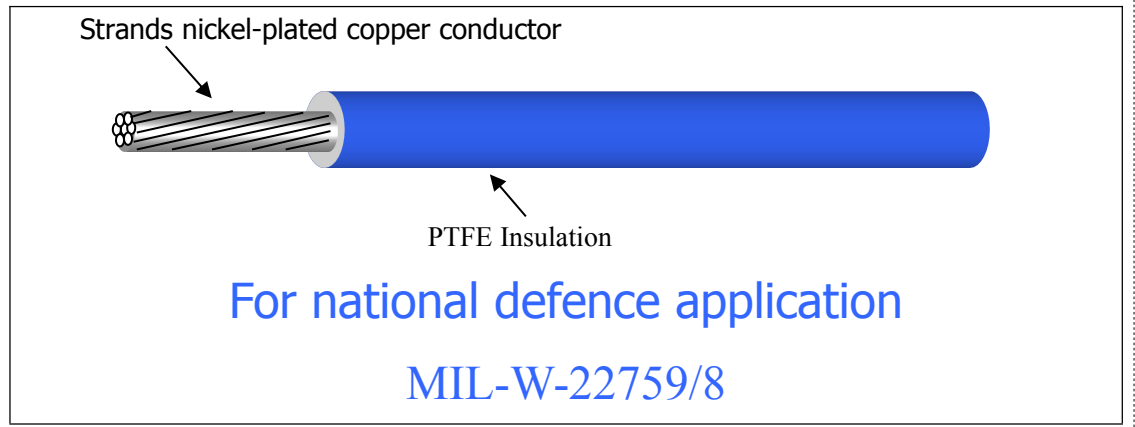
For national defence application

Guideline:

SAE AS22759-2006

Overview:

Install electric wires inside to prevent sharp bends under impact and high temperature



Wire structure description:

Conductor: Nickel-plated copper;

Insulation materials: PTFE Insulation;

STYLE	AWG	Conductor size (No./ mm) ±0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Nom.	Tol
M22759/8	24	19/0.127	0.64	0.49	1.63	±0.10
	22	19/0.16	0.81	0.55	1.91	±0.10
	20	19/0.203	1.02	0.55	2.13	±0.10
	18	19/0.254	1.28	0.55	2.39	±0.10
	16	19/0.287	1.45	0.60	2.67	±0.10
	14	19/0.361	1.82	0.60	3.00	±0.15
	12	19/0.44	2.22	0.65	3.48	±0.15
	10	37/0.404	2.84	0.65	4.12	±0.15
	8	7/19/0.287	3.82	0.95	5.72	±0.20
	6	7/19/0.361	4.81	1.10	7.01	±0.20
	4	7/19/0.44	5.86	1.30	8.46	±0.20

Sign:

1、 Printing: NO.

2、 Label identification: manufacturer, model, specification, rated temperature resistance, rated withstand voltage, insulation material, color, package length, Production Date

3F product code:

E.g: 22759D8-2000-19N
22759/8, 20AWG, black, 19/0.203, Nickel-plated

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- M/roll		
4-10AWG	■ 152.5M	□ 305M	□ 610M
12-20AWG	□ 152.5M	■ 305M	□ 610M
22-24AWG	□ 152.5M	□ 305M	■ 610M



According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

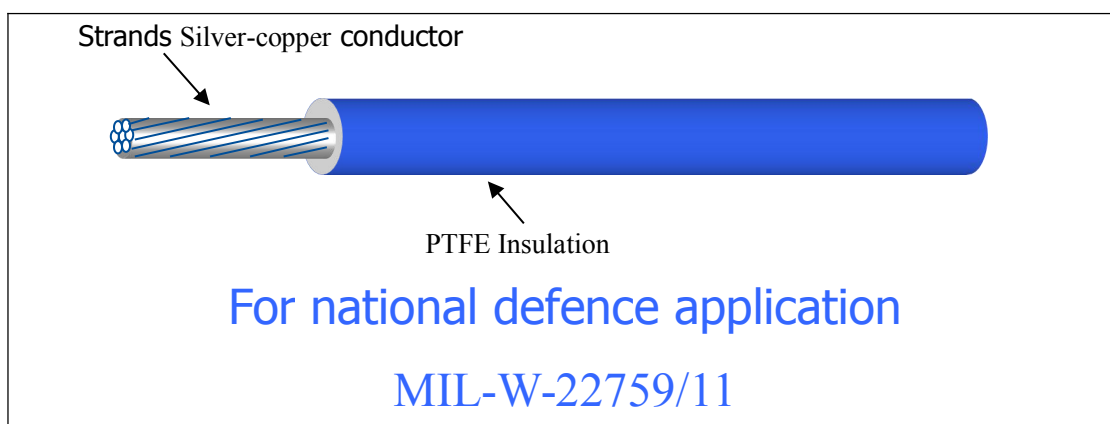
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759

Outline:



Wire structure description:

Conductor: Silver-copper;
Jacket insulation materials: PTFE Insulation;

For national defence application
Rated temperature: -55~200℃ Rated voltage: 600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M22759/11	8	7/19/0.287	copper	Silver	4.33	0.53	5.13	5.23
	10	37/0.43	copper	Silver	3.01	0.41	3.53	3.63
	12	37/0.36	copper	Silver	2.52	0.36	2.82	2.89
	14	19/0.36	copper	Silver	1.80	0.30	2.29	2.34
	16	19/0.287	copper	Silver	1.44	0.28	1.91	1.96
	18	19/0.254	copper	Silver	1.27	0.25	1.73	1.78
	20	19/0.203	copper	Silver	1.02	0.25	1.50	1.53
	22	19/0.16	copper	Silver	0.80	0.25	1.24	1.30
	24	19/0.127	copper	Silver	0.64	0.25	1.09	1.14
	26	19/0.1	copper	Silver	0.50	0.25	0.97	1.02
28	7/0.127	copper	Silver	0.38	0.25	0.84	0.89	

*导体为正规绞合

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
2~4/0AWG	■ 250Ft	□ 500Ft	□ 1000Ft
4~8AWG	□ 250Ft	■ 500Ft	□ 2000Ft
22~10AWG	□ 250Ft	□ 500Ft	■ 1000Ft



According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

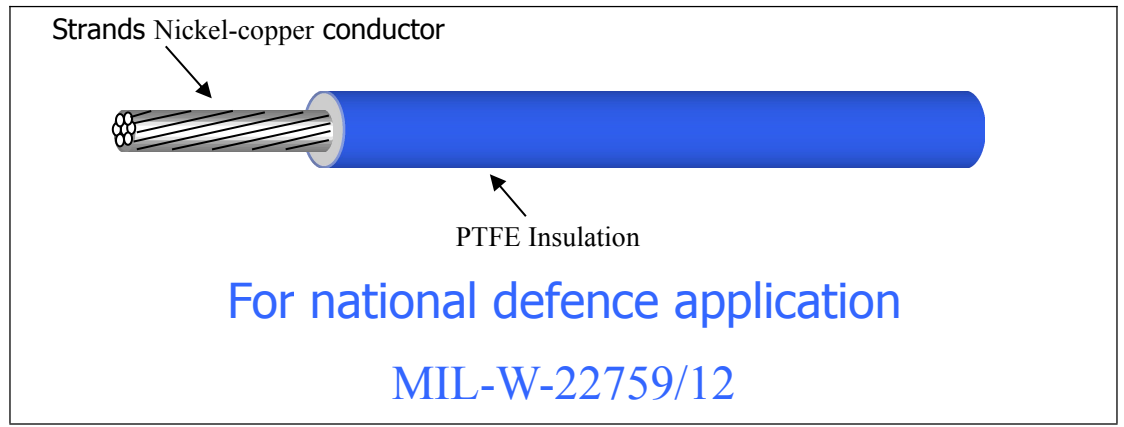
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759/12

Outline:



Wire structure description:
 Conductor: Nickel-copper;
 Jacket insulation materials: PTFE Insulation;

For national defence application
 Rated temperature: 260°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor diameter (mm)	insulation thickness (mm)	Over diameter (mm)	
					Nom.	Tole.
M22759/12-28	28	7/0.127	0.38	0.23	0.83	±0.10
M22759/12-26	26	19/0.10	0.50	0.23	0.96	±0.10
M22759/12-24	24	19/0.127	0.64	0.23	1.10	±0.10
M22759/12-22	22	19/0.16	0.81	0.23	1.24	±0.10
M22759/12-20	20	19/0.203	1.02	0.23	1.47	±0.10
M22759/12-18	18	19/0.254	1.28	0.23	1.72	±0.10
M22759/12-16	16	19/0.287	1.45	0.23	1.90	±0.10
M22759/12-14	14	19/0.361	1.82	0.23	2.28	±0.10
M22759/12-12	12	19/0.455	2.30	0.26	2.82	±0.15
M22759/12-10	10	37/0.404	2.84	0.34	3.53	±0.15
M22759/12-8	8	133/0.287	3.82	0.68	5.18	±0.20

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- FT/roll			3F
14~28AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft	
8~12	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft	
According to customer requirements for packaging packaging				

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

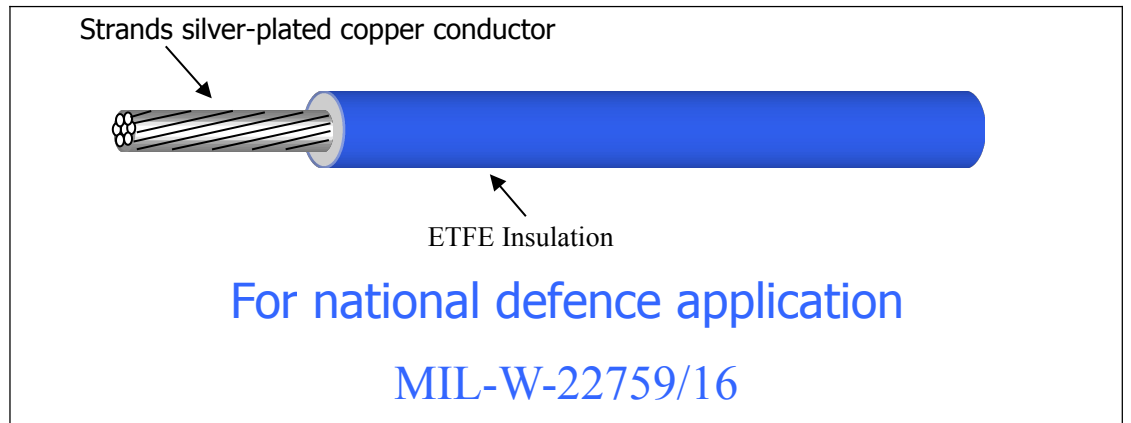
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759

Outline:



Wire structure description:

Conductor: Silver-plated copper;
Insulation materials: ETFE Insulation;

For national defence application
Rated temperature: 150°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M22759/16	8	133/29	copper	Silver	4.11	0.42	4.978	5.131
	10	37/26	copper	Silver	2.79	0.33	3.454	3.607
	12	37/28	copper	Silver	2.18	0.33	2.819	2.972
	14	19/27	copper	Silver	1.70	0.33	2.311	2.413
	16	19/29	copper	Silver	1.35	0.33	1.956	2.057
	18	19/30	copper	Silver	1.22	0.25	1.753	1.854
	20	19/32	copper	Silver	0.97	0.25	1.473	1.575
	22	19/34	copper	Silver	0.76	0.25	1.270	1.372
	24	19/36	copper	Silver	0.61	0.25	1.092	1.194

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- FT/roll			3F
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft	
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft	
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

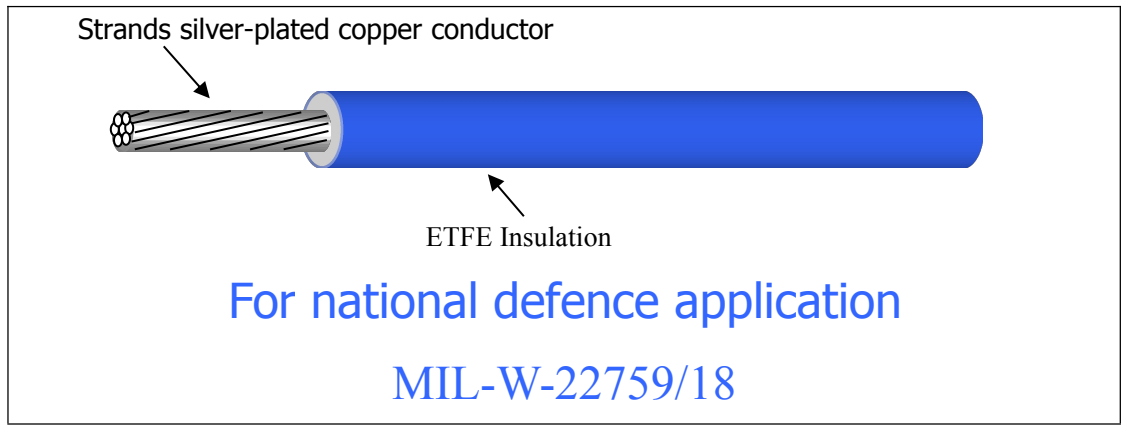
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759

Outline:



Wire structure description:
 Conductor: Silver-plated copper;
 Insulation materials: ETFE Insulation;

For national defence application
 Rated temperature: 150°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./ mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M22759/18	10	37/26	copper	Silver	2.79	0.20	3.149	3.251
	12	37/28	copper	Silver	2.18	0.20	2.565	2.667
	14	19/27	copper	Silver	1.70	0.15	2.006	2.108
	16	19/29	copper	Silver	1.35	0.15	1.651	1.753
	18	19/30	copper	Silver	1.22	0.15	1.498	1.600
	20	19/32	copper	Silver	0.97	0.15	1.245	1.346
	22	19/34	copper	Silver	0.76	0.15	1.041	1.143
	24	19/36	copper	Silver	0.61	0.15	0.863	0.965
	26	19/38	copper	Silver	0.50	0.15	0.762	0.864

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- FT/roll			3F
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft	
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft	
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)
- g、 Excellent resistance to radiation
- h、 Good resistance to twists
- i、 Good not sticky

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

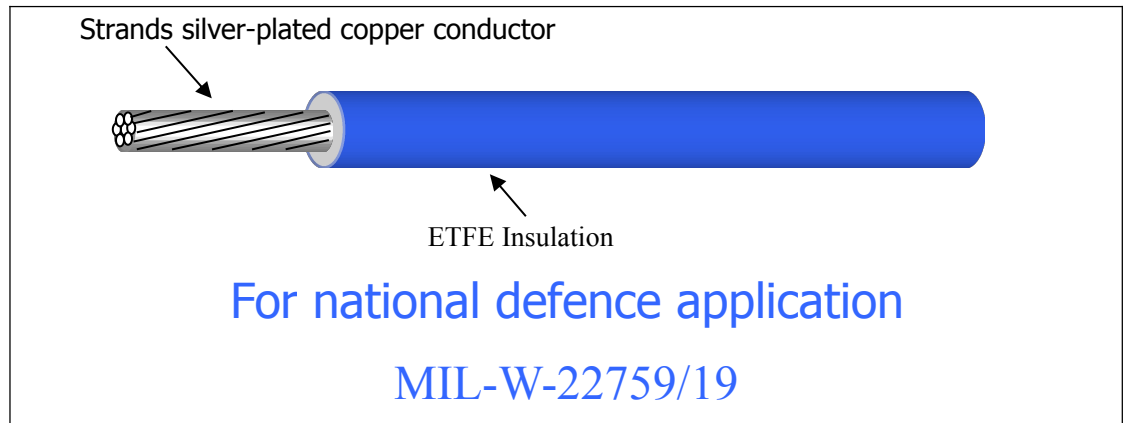
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759

Outline:



Wire structure description:

Conductor: Silver-plated copper;
Insulation materials: ETFE Insulation;

For national defence application
Rated temperature: 150°C Rated voltage: 600V

PIN.	AWG	Conductor size (No./mm) ±0.005	Conductor		Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
			Material	Coating			Min	Max
M22759/19	20	19/0.20	copper	Silver	1.022	0.15	1.22	1.32
	22	19/0.16	copper	Silver	0.805	0.15	1.04	1.14
	24	19/0.127	copper	Silver	0.639	0.15	0.89	1.00
	26	19/0.10	copper	Silver	0.513	0.15	0.76	0.86

Marking: no marking

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- FT/roll			3F
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft	
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft	
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft	

According to customer requirements for packaging packaging

Characteristic:

1.Characteristic:

a、 excellent mechanical properties:

Tensile strength $\geq 20.7\text{MPa}$, elongation at break $\geq 200\%$

After aging:

Condition: $260 \pm 1.0^\circ\text{C}/96\text{H}$

Tensile strength residual rate $\geq 85\%$ elongation at break $\geq 85\%$

b、 Flame retardancy: VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c、 Low temperature bending: $-10^\circ\text{C} \pm 2^\circ\text{C}/4\text{H}$, no crack on the surface of the sample is qualified

2.Electrical performance

a、 rated temperature: 200°C rated voltage: 600V

b、 Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 6KV AC

c、 dielectric withstand voltage: 2KV AC, 60 seconds without breakdown

3.Processing performance

a、 suitable for all conventional wire harness processing

b、 If you have special needs, please let us know.

4.Environmental protection

a、 in line with ROHS/REACH

application:

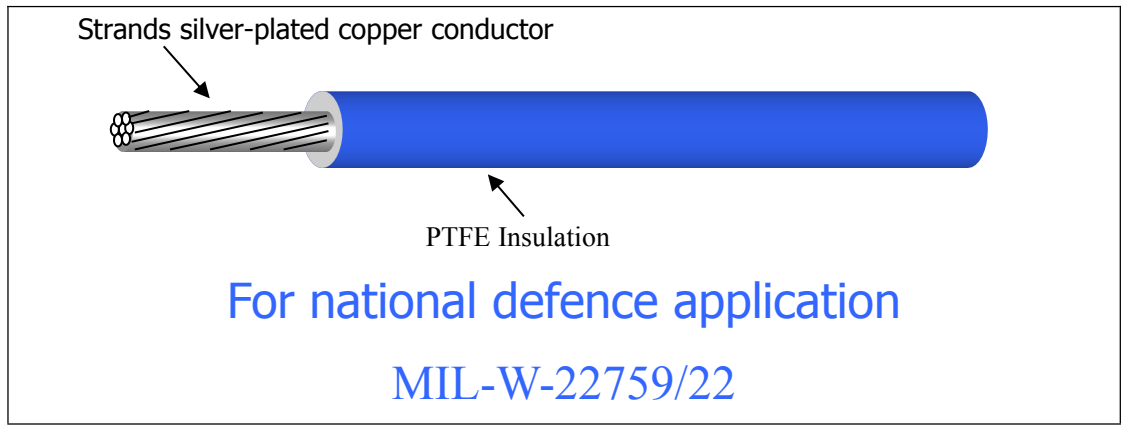
For national defence application

Guideline:

SAE AS22759-2006

Overview:

Install electric wires inside to prevent sharp bends under impact and high temperature



Wire structure description:

Conductor: Silver-plated copper;

Insulation materials: PTFE Insulation;

STYLE	AWG	Conductor size (No./ mm) ± 0.005	Conductor Dia.(mm)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
					Nom.	Tol.
M22759/22	28	7/0.127	0.39	0.22	0.83	± 0.05
	26	19/0.102	0.51	0.22	0.95	± 0.05
	24	19/0.127	0.64	0.22	1.08	± 0.05
	22	19/0.16	0.80	0.22	1.24	± 0.05
	20	19/0.203	1.02	0.22	1.46	± 0.05

Sign:

1、 Printing: NO.

3F product code:

E.g: 22759D22-2000-19S
22759/22, 20AWG, black, 19/0.203, Silver-plated

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- M/roll		
20AWG	<input type="checkbox"/> 152.5M	<input checked="" type="checkbox"/> 305M	<input type="checkbox"/> 610M
22-28AWG	<input type="checkbox"/> 152.5M	<input type="checkbox"/> 305M	<input checked="" type="checkbox"/> 610M
According to customer requirements for packaging packaging			



CHARACTER:

1. Physical performance

- a、 Good mechanical properties
- b、 Good resistance to high temperature, low temperature resistance
- c、 Good flame retardancy
- d、 Good corrosion resistance
- e、 Good resistance to climate
- f、 Good lubricity (small friction coefficient)

2. Electrical Properties

- a、 Electrical insulation good
- b、 Has the very high resistivity

3. Processing properties

- a、 Use half extrusion processing
- b、 Good wire processing performance
- c、 In the process of wire processing good compatibility
- d、 According to UL standard design

4. Environmental protection

- a、 ROHS/REACH compliant
- b、 nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759/32

Outline:



Wire structure description:
 Conductor: Silver-plated copper;
 Insulation materials: XLETFE Insulation;

For national defence application
 Rated temperature: 150°C Rated voltage: 600V

PIN.	AWG	Conductor size (no/mm) ±0.005mm	20°C Conductor resistance (Ω/Km)	导体直径 (mm)	绝缘厚度 (mm)	完成外径 (mm)	
						平均值	最大值
M22759/32	30	7/0.10	117.4	0.311	0.15	0.56	0.66
	28	7/0.127	74.4	0.388	0.15	0.64	0.74
	26	19/0.10	44.8	0.513	0.15	0.76	0.86
	24	19/0.127	28.4	0.639	0.15	0.89	1.00
	22	19/0.16	17.5	0.805	0.15	1.04	1.14
	20	19/0.20	10.07	1.022	0.15	1.22	1.32
	18	19/0.254	6.23	1.278	0.15	1.47	1.60
	16	19/0.287	4.81	1.444	0.15	1.68	1.78
	14	19/0.361	3.06	1.817	0.15	2.08	2.24
	12	37/0.32	2.02	2.248	0.15	2.54	2.69

Marking: no marking

SAE COLOR SERIES

*STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- FT/roll			3F
10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft	
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft	
22-30AWG	□ 500Ft	□ 1000Ft	■ 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

a. excellent mechanical properties:

Tensile strength $\geq 34.5\text{MPa}$, elongation at break $\geq 100\%$

After aging:

Condition: $180 \pm 1.0^\circ\text{C} / 168\text{H}$

Tensile strength residual rate $\geq 85\%$ elongation at break $\geq 75\%$

b. Flame retardancy: VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c. Low temperature bending: $-65^\circ\text{C} \pm 3^\circ\text{C}$, no crack on the surface of the sample is qualified

2. Electrical performance

a. rated temperature: 200°C **rated voltage:** 600V

b. dielectric withstand voltage: 2.5KV AC, 60 seconds without breakdown

3. Processing performance

a. suitable for all conventional wire harness processing

b. If you have special needs, please let us know.

4. Environmental protection

a. ROHS/REACH compliant

b. no hazardous

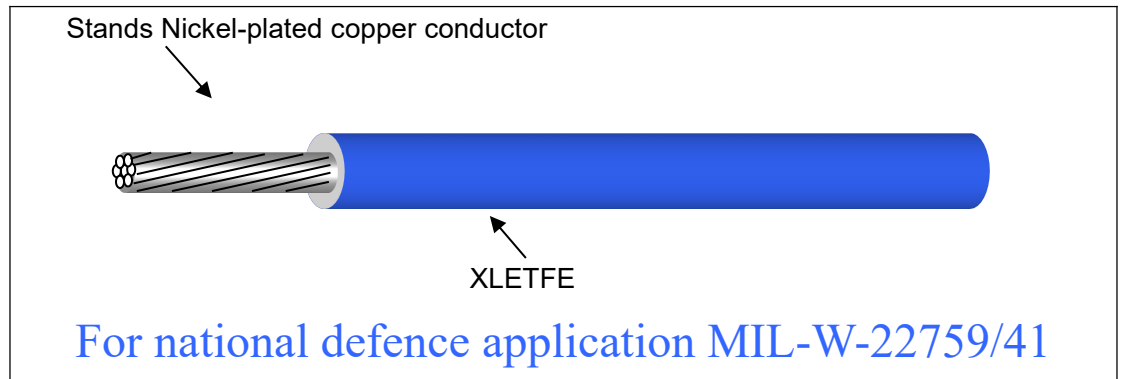
SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759/41

Outline:



Wire structure description:

Conductor: Nickel-plated copper

Insulation materials: XLETFE Insulation;

For national defence application
Rated temperature: 200°C Rated voltage: 600V

STYLE	AWG	Conductor size (no/mm) $\pm 0.005\text{mm}$	20°C Conductor resistance (Ω/Km)	Conductor or Dia. (mm)	Insulation thickness (mm)	Overall diameter (mm)	
						Nom.	Tol.
M22759/41-04	04	133/0.45	0.882	6.92	0.25	7.42	± 0.2
M22759/41-06	06	133/0.32	1.403	4.92	0.25	5.42	± 0.2
M22759/41-08	08	133/0.30	2.16	4.62	0.25	5.12	± 0.2
M22759/41-10	10	37/0.40	3.90	2.81	0.25	3.31	± 0.2
M22759/41-12	12	37/0.32	5.94	2.25	0.25	2.75	± 0.2
M22759/41-14	14	19/0.32	9.45	1.61	0.25	2.11	± 0.1
M22759/41-16	16	19/0.30	14.8	1.51	0.25	2.01	± 0.1
M22759/41-18	18	19/0.254	19.0	1.28	0.25	1.78	± 0.1
M22759/41-20	20	19/0.20	30.1	1.00	0.25	1.50	± 0.1
M22759/41-22	22	19/0.16	49.5	0.81	0.25	1.31	± 0.1
M22759/41-24	24	19/0.127	79.7	0.64	0.25	1.14	± 0.1
M22759/41-26	26	19/0.10	126	0.50	0.25	1.00	± 0.1

Marking: no marking

SAE COLOR SERIES

*STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09-VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
4~10AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
12~20AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
22~26AWG	□ 500Ft	□ 1000Ft	■ 2000Ft
According to customer requirements for packaging packaging			

CHARACTER:

1. Physical performance

a. excellent mechanical properties:

Tensile strength $\geq 13.8\text{MPa}$, elongation at break $\geq 200\%$

After aging:

Condition: $232 \pm 1.0^\circ\text{C} / 168\text{H}$

Tensile strength residual rate $\geq 85\%$ elongation at break $\geq 80\%$

b. Flame retardancy: VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c. Low temperature bending: $-65^\circ\text{C} \pm 3^\circ\text{C}$, no crack on the surface of the sample is qualified

2. Electrical performance

a. rated temperature: 200°C **rated voltage:** 600V

b. dielectric withstand voltage: 2.5KV AC, 60 seconds without breakdown

3. Processing performance

a. suitable for all conventional wire harness processing

b. If you have special needs, please let us know.

4. Environmental protection

a. ROHS/REACH compliant

b. nonhazardous

SHOULD BE USED:

For national defence application

REFERENCE:

MIL-W-22759/46

Outline:

Nickel-plated copper conductor



XLETFE

For national defence application

MIL-W-22759/46

Wire structure description:

Conductor: Tin/Silver-plated copper

Insulation materials: XLETFE Insulation;

For national defence application
Rated temperature: 200°C Rated voltage: 600V

STYLE	AWG	Conductor size (no/mm) $\pm 0.005\text{mm}$	20 $^\circ\text{C}$ Conductor resistance (Ω/Km)	Conductor Dia.(m m)	Insulation thickness (mm) Nom.	Overall diameter (mm)	
						Min	Max
M22759/46	20	19/0.203	30.10	1.02	0.15	1.22	1.32
	22	19/0.16	56.40	0.81	0.15	1.01	1.11
	24	19/0.127	89.30	0.64	0.15	0.84	0.94
	26	19/0.10	143.00	0.50	0.15	0.70	0.80
	28	7/0.127	227.00	0.39	0.15	0.59	0.69

Marking: no marking

SAE COLOR SERIES

*STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- FT/roll		
20AWG	<input type="checkbox"/> 500Ft	<input checked="" type="checkbox"/> 1000Ft	<input type="checkbox"/> 2000Ft
22-28AWG	<input type="checkbox"/> 500Ft	<input type="checkbox"/> 1000Ft	<input checked="" type="checkbox"/> 2000Ft
According to customer requirements for packaging packaging			



CHARACTER:

1. Physical performance

a. excellent mechanical properties:

Tensile strength ≥ 12.4MPa, elongation at break ≥ 100%

After aging:

Condition: 180 ± 1.0°C / 168H

Tensile strength residual rate ≥ 85%

Tensile strength residual rate ≥ 70%

b. Flame retardancy: FT2, horizontal burning, burning once, 30S each time, no particles or droplets igniting the cotton layer can be emitted on the sample during the test.

VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c. Low temperature bending: -10°C ± 2°C/4H, no crack on the surface of the sample is qualified

2. Electrical Properties

a. rated temperature: 150°C rated voltage: 600V

b. Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 6KV

c. dielectric withstand voltage: 2KV, 60 seconds without breakdown

3. Processing properties

a. thin-wall

b. Can be twisted pair and multi-core

c. Light weight

4. Environmental protection

a. ROHS/REACH compliant

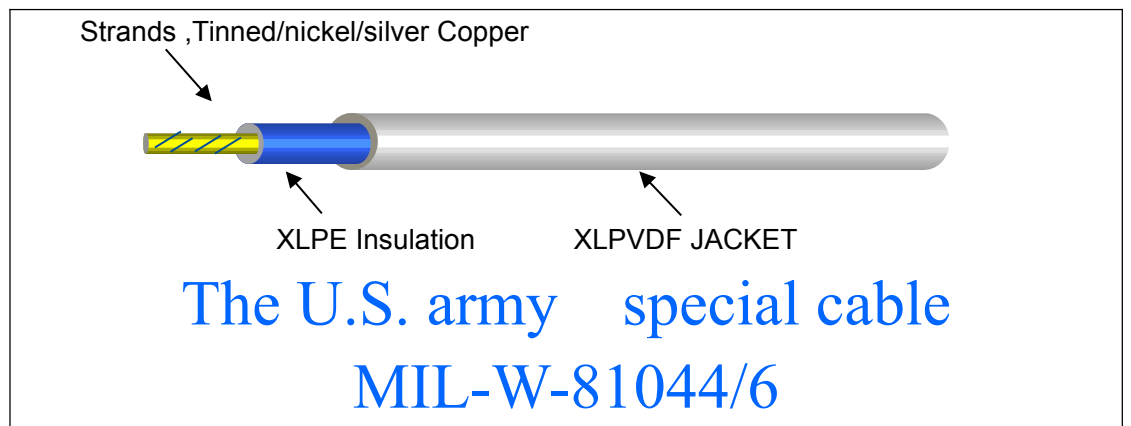
SHOULD BE USED:

American standard special MIL - W - 81044 cable is widely used in aviation, spaceflight, ships, military vehicles, missiles and other electronic products, and other industrial fields.

REFERENCE:

MIL-W-81044

Outline:



Wire structure description:

Conductor: Tinned/nickel/silver Copper ;

Insulation materials: XLPE insulation

Jacket materials: XLPVDF

The U.S. Army special cable
Rated temperature: 150°C Rated voltage: 600V

STYLE	AWG	Conductor size (No./ mm) ± 0.005	Conductor Dia.(mm)	thickness (mm) Nom.		Overall diameter (mm)	
				Insulation	jacket	nom.	tole.
M81044/6-24	24	19/0.127	0.64	0.27	0.10	1.38	±0.10
M81044/6-22	22	19/0.16	0.81	0.35	0.10	1.70	±0.10
M81044/6-20	20	19/0.203	1.02	0.35	0.10	1.92	±0.10
M81044/6-18	18	19/0.254	1.28	0.35	0.10	2.20	±0.10
M81044/6-16	16	19/0.287	1.45	0.38	0.10	2.40	±0.10
M81044/6-14	14	19/0.361	1.82	0.45	0.10	2.92	±0.15
M81044/6-12	12	37/0.374	2.63	0.45	0.15	3.83	±0.15
M81044/6-10	10	37/0.404	2.84	0.50	0.15	4.14	±0.15
M81044/6-8	8	7/19/0.287	3.82	0.70	0.15	5.52	±0.15
M81044/6-6	6	7/19/0.361	4.80	0.80	0.20	6.80	±0.20
M81044/6-4	4	7/19/0.455	6.06	0.90	0.20	8.26	±0.20
M81044/6-2	2	19/35/0.254	7.86	1.20	0.25	10.76	±0.20
M81044/6-1	1	19/43/0.254	8.71	1.20	0.25	11.60	±0.20
M81044/6-1/0	1/0	19/55/0.254	10.67	1.20	0.25	13.50	±0.20

Marking: NO MARKING

3F product code:

E.g: 81044D6-2000-19
81044/6, 20AWG, black, 19/0.203, Tinned-plated

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE				
Part No.	Packing- Ft/roll			3F
1/0-4AWG	■ 500Ft	□ 1000Ft	□ 2000Ft	
6-14AWG	□ 500Ft	■ 1000Ft	□ 2000Ft	
16-24AWG	□ 500Ft	□ 1000Ft	■ 2000Ft	

According to customer requirements for packaging packaging

CHARACTER:

1. Physical performance

a. excellent mechanical properties:

Tensile strength $\geq 12.4\text{MPa}$, elongation at break $\geq 100\%$

After aging:

Condition: $180 \pm 1.0^\circ\text{C} / 168\text{H}$

Tensile strength residual rate $\geq 85\%$

Tensile strength residual rate $\geq 70\%$

b. Flame retardancy: FT2, horizontal burning, burning once, 30S each time, no particles or droplets igniting the cotton layer can be emitted on the sample during the test.

VW-1, vertical combustion, burning 5 times, each time 15S, any residual flame is not more than 60S.

c. Low temperature bending: $-55^\circ\text{C} \pm 2^\circ\text{C} / 4\text{H}$, no crack on the surface of the sample is qualified

2. Electrical Properties

a. rated temperature: 150°C rated voltage: 600V

b. Spark test: When passing through the test electrode, no breakdown occurs. Spark test voltage is 6KV

c. dielectric withstand voltage: 2KV, 60 seconds without breakdown

3. Processing properties

a. thin-wall

b. Can be twisted pair and multi-core

c. Light weight

4. Environmental protection

a. ROHS/REACH compliant

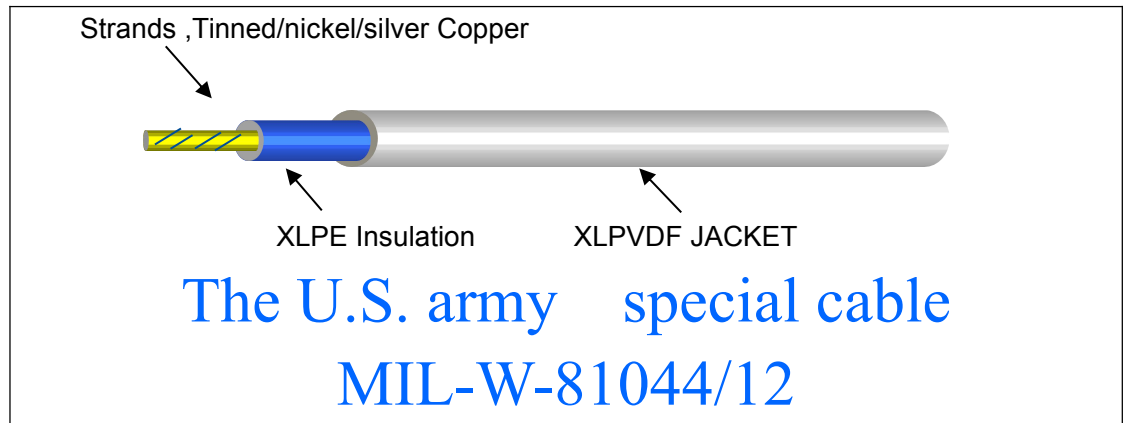
SHOULD BE USED:

American standard special MIL - W - 81044 cable is widely used in aviation, spaceflight, ships, military vehicles, missiles and other electronic products, and other industrial fields.

REFERENCE:

MIL-W-81044

Outline:



Wire structure description:

Conductor: Tinned/nickel/silver Copper ;

Insulation materials: XLPE insulation

Jacket materials: XLPVDF

The U.S. Army special cable
Rated temperature: 150°C Rated voltage: 600V

STYLE	AWG	Conductor size (No./ mm) ± 0.005	Conductor Dia.(mm)	thickness (mm) Nom.		Overall diameter (mm)	
				Insulation	jacket	nom.	tole.
M81044/12-24	24	19/0.127	0.64	0.24	0.10	1.32	± 0.10
M81044/12-22	22	19/0.16	0.81	0.24	0.10	1.50	± 0.10
M81044/12-20	20	19/0.20	1.00	0.24	0.10	1.68	± 0.10
M81044/12-18	18	19/0.254	1.28	0.24	0.10	1.96	± 0.10
M81044/12-16	16	19/0.287	1.44	0.24	0.10	2.12	± 0.10
M81044/12-14	14	29/0.3	1.87	0.35	0.10	2.77	± 0.15
M81044/12-12	12	37/0.32	2.25	0.35	0.10	3.15	± 0.15

Marking: NO MARKING

3F product code:

E.g: 81044D12-2000-19
81044/12, 20AWG, black, 19/0.20, Tinned-plated

SAE COLOR SERIES

* STOCK COLOR CHART				
00-BLACK	01-WHITE	02-RED	03-YELLOW	04-GREEN
05-BLUE	06-BROWN	07-GREY	08-ORANGE	09- VIOLET

PACKAGE

*PACKAGE			
Part No.	Packing- Ft/roll		
1/0-4AWG	■ 500Ft	□ 1000Ft	□ 2000Ft
6-14AWG	□ 500Ft	■ 1000Ft	□ 2000Ft
16-24AWG	□ 500Ft	□ 1000Ft	■ 2000Ft

According to customer requirements for packaging packaging