

WIRE & CABLE GUIDE



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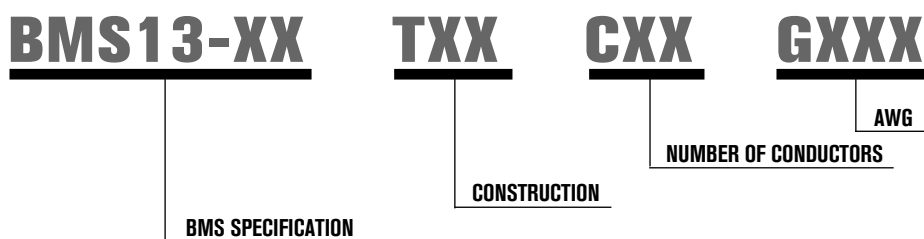


Carlisle Interconnect Technologies (CarlisleIT) is one of the world's leading designers and manufacturers of high-performance wire and cable including fiber, RF/Microwave, specialty and filtered connectors, cable assemblies, complex harnesses, integrated installation kits and ARINC trays, racks and shelf assemblies, and offers engineering and certification services with DER, DAR, and DMIR personnel on staff. For over 70 years, CarlisleIT has been delivering highly reliable products to Aerospace, Defense, Medical, Industrial and other markets. Originally founded as the Tensolite Company in 1940, CarlisleIT has grown dramatically and now encompasses many recognized brands beyond Tensolite, including CDI, ECS, Jerrik, and QMI. CarlisleIT's commitment to innovation, global manufacturing and continuous improvement through the Carlisle Operating System (COS) make us ideally suited to support your most demanding programs and applications. Headquartered in St. Augustine, Florida CarlisleIT has operations in Arizona, California, Florida, Washington, Wisconsin and China. For more information, visit www.CarlisleIT.com.

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Below is a typical BMS part number format.
The following pages contain valuable information on BMS wire.



* Product Specifications are subject to change without notice. Specification Information contained herein is provided for reference only.

BMS 13-48

Extruded Cross-Linked ETFE, 600V, Wire and Cable."General Purpose" for use in both pressurized, and unpressurized areas of aircraft.

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MIN	MAX
1	1	5	24	10	6	Annealed Copper	Tin	--	--	--	-65	150
2	1	5	24	16	6	High Strength Copper Alloy	Nickel	--	--	--	-65	150
3	1	5	24	10	6	Annealed Copper	Tin	Copper	Tin	ETFE	-65	150
4	2	5	24	12	6	Annealed Copper	Tin	--	--	ETFE	-65	150
5	1	5	24	16	6	High Strength Copper Alloy	Silver	--	--	--	-65	150
6	1	5	24	16	6	High Strength Copper Alloy	Silver	Copper	Tin	ETFE	-65	150
7	2	5	24	16	6	High Strength Copper Alloy	Silver	--	--	ETFE	-65	150
8	1	6	24	4/0	10	Annealed Copper	Tin	--	--	--	-65	150
9	1	6	24	16	10	High Strength Copper Alloy	Silver	--	--	--	-65	150
10	1	7	24	4/0	8	Annealed Copper	Tin	--	--	--	-65	150
11	1	6	24	16	8	High Strength Copper Alloy	Silver	--	--	--	-65	150
12	1	4	24	8	8	Annealed Copper	Tin	Copper	Tin	ETFE	-65	150
13	1	6	24	16	8	High Strength Copper Alloy	Silver	Copper	Tin	ETFE	-65	150
14	2	5	24	12	8	Annealed Copper	Tin	--	--	ETFE	-65	150
15	1	4	24	12	10	Annealed Copper	Tin	Copper	Tin	ETFE	-65	150
16	1	6	24	10	15	Annealed Copper	Tin	--	--	--	-65	150
17	2	5	20	12	15	Annealed Copper	Tin	--	--	ETFE	-65	150
18	1	4	20	12	15	Annealed Copper	Tin	Copper	Tin	ETFE	-65	150

Standard jacket color: White. (Except Type 08, and 10, 22AWG= pastel green.)
Multiconductor Standard colors= Red, blue, yellow, green, black, purple, orange.



BMS 13-48 (continued)

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MIN	MAX
19	1	6	24	16	15	High Strength Copper Alloy	Silver	--	--	--	-65	150
20	2	5	20	18	15	High Strength Copper Alloy	Silver	--	--	ETFE	-65	150
21	1	4	20	18	15	High Strength Copper Alloy	Silver	Copper	Tin	ETFE	-65	150
22	1	6	24	16	15	High Strength Copper Alloy	Nickel	--	--	--	-65	150
23	1	6	24	16	10	High Strength Copper Alloy	Nickel	--	--	--	-65	150
24	1	4	24	16	10	High Strength Copper Alloy	Nickel	Copper	Tin	ETFE	-65	150
25	1	5	24	12	6	Annealed Copper	Tin	Flat Copper	Tin	ETFE	-65	150
26	1	5	24	16	6	High Strength Copper Alloy	Nickel	Flat Copper	Tin	ETFE	-65	150
27	1	4	24	12	8	Annealed Copper	Tin	Flat Copper	Tin	ETFE	-65	150
28	1	5	24	16	8	High Strength Copper Alloy	Silver	Flat Copper	Tin	ETFE	-65	150
29	1	5	24	16	6	High Strength Copper Alloy	Nickel	Copper	Tin	ETFE	-65	150
30	2	5	24	16	6	Annealed Copper	Nickel	--	--	ETFE	-65	150
31	1	6	24	16	8	High Strength Copper Alloy	Nickel	--	--	--	-65	150
32	1	6	24	16	8	High Strength Copper Alloy	Nickel	Copper	Tin	ETFE	-65	150
33	2	5	20	18	15	High Strength Copper Alloy	Nickel	--	--	ETFE	-65	150
34	1	4	20	18	15	High Strength Copper Alloy	Nickel	Copper	Tin	ETFE	-65	150
35	1	6	24	12	8	Annealed Copper	Silver	--	--	--	-65	150
36	1	6	24	12	8	Annealed Copper	Silver	Copper	Tin	ETFE	-65	150
37	1	4	24	16	8	High Strength Copper Alloy	Nickel	Double Copper Braid	Tin	ETFE	-65	150
38	1	4	22	10	8	Annealed Copper	Tin	Double Copper Braid	Tin	ETFE	-65	150
39	1	4	24	16	8	High Strength Copper Alloy	Nickel	Flat Copper	Tin	ETFE	-65	150



BMS 13-55

Insulated Thin Wall Fire Resistant, High Temperature, 600V, Wire and Cable

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MIN	MAX
1	1	4	22	10	25	Annealed Copper	Nickel	--	--	Inorganic Fiber PTFE Tape Braid	-65	260
2	1	4	22	10	25	High Strength Copper Alloy	Nickel	--	--	Inorganic Fiber PTFE Tape Braid	-65	260
3	1	4	22	14	25	Annealed Copper	Nickel	Copper Braid	Nickel	Inorganic Fiber PTFE Tape Braid	-65	260
4	1	4	22	10	25	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Inorganic Fiber PTFE Tape Braid	-65	260
5	1	1	22	10	35	High Strength Copper Alloy	Nickel	--	--	Inorganic Fiber PTFE Tape Braid	-65	260
6	1	4	22	14	35	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Inorganic Fiber PTFE Tape Braid	-65	260

Standard jacket color: White with Red Stripe. Multiconductor Standard colors= Red, blue, yellow, green.

BMS 13-58

Extreme Environment, Nickel Coated Copper Conductor, 600V, Wire and Cable

Intended for use in areas where exposure to thermal changes and corrosive fluids are normal

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MIN	MAX
1	1	8	24	4/0	22	Annealed Copper	Nickel	--	--	--	-65	260
				8								
				12								
2	1	4	24	12	22	Annealed Copper	Nickel	Copper Braid	Nickel	--	-65	260
3	1	4	24	12	22	Annealed Copper	Nickel	--	--	PTFE/Tape	-65	260
4	2	4	24	12	22	Annealed Copper	Nickel	--	--	PTFE/Tape	-65	260
5	1	8	24	12	22	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	--	-65	260
				16								
6	1	4	24	16	22	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	--	-65	260
7	1	4	24	16	22	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	PTFE/Tape	-65	260
8	2	4	24	16	22	High Strength Copper Alloy	Nickel	--	--	PTFE/Tape	-65	260
9	1	3	24	18	22	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	PTFE/Tape	-65	260

Standard jacket color: Light Gray. Multiconductor Standard colors= Red, blue, yellow, green, black, purple, orange, brown, white.



BMS 13-60

Arc Resistant, 600V, Annealed Copper, Copper Alloy, and Aluminum Wire and Cable

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MIN	MAX
1	1	8	22	4/0	8	Annealed Copper	Tin	--	--	--	-65	150
2	1	4	22	10	8	Annealed Copper	Tin	Copper Braid	Tin	Polyimide/PTFE	-65	150
3	2	4	22	10	8	Annealed Copper	Tin	--	--	Polyimide/PTFE	-65	150
4	1	8	24	16	8	High Strength Copper Alloy	Nickel	--	--	--	-65	260
5	1	4	24 14	16 10	8 8	High Strength Copper Alloy Annealed Copper	Nickel	Copper Braid	Tin	Polyimide/PTFE	-65	150
6	2	4	24	16	8	High Strength Copper Alloy	Nickel	--	--	Polyimide/PTFE	-65	260
7	1	8	22	4/0	19	Annealed Copper	Nickel	--	--	--	-65	260
8	1	6	22	10	19	Annealed Copper	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
9	2 5	4 8	22 22	10 18	19	Annealed Copper	Nickel	--	--	Polyimide/PTFE	-65	260
10	1	8	24	16	19	High Strength Copper Alloy	Nickel	--	--	--	-65	260
11	1	6	24	16	19	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
12	2	4	24	16	19	High Strength Copper Alloy	Nickel	--	--	Polyimide/PTFE	-65	260
13	1	6	22	10	6	Annealed Copper	Tin	Copper Braid	Tin	Polyimide/PTFE	-65	150
14	2	6	22	10	6	Annealed Copper	Tin	--	--	Polyimide/PTFE	-65	150
15	1	6	24 14	16 10	6 6	High Strength Copper Alloy Annealed Copper	Nickel	Copper Braid	Tin	Polyimide/PTFE	-65	150
16	2	6	24	16	6	High Strength Copper Alloy	Nickel	--	--	Polyimide/PTFE	-65	260
17	1	6	22	10	6	Annealed Copper	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
18	2	6	22	10	6	Annealed Copper	Nickel	--	--	Polyimide/PTFE	-65	260
19	1	8	22	4/0	8	Annealed Copper	Nickel	--	--	--	-65	260
20	1	5	22	10	8	Annealed Copper	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
21	2	4	22	10	8	Annealed Copper	Nickel	--	--	Polyimide/PTFE	-65	260
22	1	3	8	4/0	19	EC Aluminum	--	--	--	--	-65	175
23	10	10	18	18	8	High Strength Copper Alloy	Nickel	--	--	Polyimide/PTFE	-65	260
24	7	7	20	20	8	Annealed Copper	Tin	Copper Braid	Nickel	Polyimide/PTFE	-65	150
25	1	4	24	16	8	High Strength Copper Alloy	Nickel	Double Copper Braid	Nickel	Polyimide/PTFE	-65	260

Standard jacket color: White. (Except Type O1 and 22AWG= pastel green).

Multiconductor Standard colors= Red, blue, yellow, green, black, purple, orange, brown (except type 23).

BMS 13-60 (continued)

Arc Resistant, 600V, Annealed Copper, Copper Alloy, and Aluminum Wire and Cable

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MIN	MAX
26	1	3	24	16	8	High Strength Copper Alloy	Nickel	Double Flat Copper Braid	Tin	Polyimide/PTFE	-65	150
27	1	3	22	16	8	High Strength Copper Alloy	Nickel	Double Copper Braid	Nickel	Polyimide/PTFE	-65	260
28	1	8	22	10	6	Annealed Copper	Tin	--	--	--	-65	150
29	1	8	22	10	6	Annealed Copper	Nickel	--	--	--	-65	260
30	1	8	24	16	6	High Strength Copper Alloy	Nickel	--	--	--	-65	260
31	1	6	22	16	6	Annealed Copper	Tin	Flat Copper Braid	Tin	Polyimide/PTFE	-65	150
32	1	6	24	16	6	High Strength Copper Alloy	Nickel	Flat Copper Braid	Tin	Polyimide/PTFE	-65	150
33	1	6	22	16	8	High Strength Copper Alloy	Tin	Flat Copper Braid	Tin	Polyimide/PTFE	-65	150
34	1	6	24	16	8	High Strength Copper Alloy	Nickel	Flat Copper Braid	Tin	Polyimide/PTFE	-65	150
35	1	8	26	16	6	High Strength Copper Alloy	Silver	--	--	--	-65	200
36	1	6	26	16	6	High Strength Copper Alloy	Silver	Flat Copper	Silver	Polyimide/PTFE	-65	200
37	1	6	26	16	6	High Strength Copper Alloy	Nickel	Flat Copper	Silver	Polyimide/PTFE	-65	200
38	1	6	22	10	6	Annealed Copper	Nickel	Flat Copper	Silver	Polyimide/PTFE	-65	200
39	1	8	26	12	8	High Strength Copper Alloy	Silver	--	--	--	-65	200
40	1	6	26	16	8	High Strength Copper Alloy	Silver	Flat Copper	Silver	Polyimide/PTFE	-65	200
41	1	6	24	16	8	High Strength Copper Alloy	Nickel	Flat Copper	Silver	Polyimide/PTFE	-65	200
42	1	6	22	10	8	Annealed Copper	Nickel	Flat Copper	Silver	Polyimide/PTFE	-65	200
43	1	6	22	10	19	Annealed Copper	Nickel	Flat Copper	Nickel	Polyimide/PTFE	-65	260
44	1	4	22	16	10	Annealed Copper	Nickel	--	--	--	-65	260
45	1	4	24	20	10	High Strength Copper Alloy	Nickel	--	--	--	-65	260
46	1	4	24	16	8	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
47	1	4	20	10	8	Annealed Copper	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
48	1	4	24	16	6	High Strength Copper Alloy	Nickel	Double Copper Braid	Nickel	Polyimide/PTFE	-65	260
49	1	4	22	10	6	Annealed Copper	Nickel	Double Copper Braid	Nickel	Polyimide/PTFE	-65	260
50	1	4	26	16	6	High Strength Copper Alloy	Nickel	Copper Braid	Nickel	Polyimide/PTFE	-65	260
51	1	4	26	16	6	High Strength Copper Alloy	Nickel	Flat Copper	Nickel	Polyimide/PTFE	-65	260
52	1	4	22	10	6	Annealed Copper	Nickel	Flat Copper	Nickel	Polyimide/PTFE	-65	260
53	1	3	22	16	6	High Strength Copper Alloy	Nickel	Double Copper Braid	Nickel	Polyimide/PTFE	-65	260
54	1	4	22	10	19	Annealed Copper	Nickel	Double Copper Braid	Nickel	Polyimide/PTFE	-65	260

Standard jacket color: White. (Except Type O1 and 22AWG= pastel green).

Multiconductor Standard colors= Red, blue, yellow, green, black, purple, orange, brown (except type 23).

BMS 13-65

Silver Coated Conductor, PTFE Dielectric, Double Braid, Light Weight, 50 ohms, COAX

TYPE	IMPEDANCE	NOM O.D.	CENTER CONDUCTOR DIAMETER		INSULATION	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
			MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MATERIAL	MIN
OE	50 ohm	.111	.0233	.0244	PTFE	Annealed Copper	Silver	Round and Flat Copper	Silver	FEP	-55	200
OF	50 ohm	.141	.0332	.0348	PTFE	Annealed Copper	Silver	Round and Flat Copper	Silver	FEP	-55	200
OG	50 ohm	.187	.0470	.049	PTFE	Annealed Copper	Silver	Round and Flat Copper	Silver	FEP	-55	200
OH	50 ohm	.252	.0650	.067	PTFE	Annealed Copper	Silver	Round and Flat Copper	Silver	FEP	-55	200
OJ	50 ohm	.322	.0884	.0904	PTFE	Annealed Copper	Silver	Round and Flat Copper	Silver	FEP	-55	200
OK	50 ohm	.488	.1430	.147	PTFE	Annealed Copper	Silver	Round and Flat Copper	Silver	FEP	-55	200

Standard jacket color: Brown.

BMS 13-67

Insulated Fire Resistant, High Temperature Wire and Cable

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MATERIAL	MIN
1	--	--	--	--	--	--	--	--	--	--	--	--
2	1	4	22	10	Inorganic Fiber PTFE Tape & Braid	High Strength Copper Alloy	Nickel	Copper	Nickel	Inorganic Fiber PTFE Tape & Braid	-65	310

Standard jacket color: White with Red Stripe. Multiconductor Standard colors= Red, blue, yellow, green.

BMS 13-71

Aerospace Grade Optical Fiber Cable

TYPE	CLASS	GRADE	OPTICAL FIBER		SECONDARY BUFFER	STRENGTH MEMBER	JACKET	TEMPERATURE RATING (DEGREES C)	
			DESCRIPTION	COATING				MATERIAL	MATERIAL
1	1	A	62.5/125/250 Multimode Fiber	Acrylate	Polyimide Tape over Expanded PTFE	Aramid Fiber/Fiberglass Braid	PFA	-55	100
2	1	A	62.5/125/250 Multimode Fiber	Acrylate	Polyimide Tape over Expanded PTFE	--	--	-55	100
3	1	A	62.5/125/250 Multimode Fiber	Acrylate	Polyimide Tape over Expanded PTFE	Aramid Fiber/Fiberglass Braid	PFA	-55	100
4	2	A	62.5/125/250 Multimode Fiber	Acrylate	Polyimide Tape over Expanded PTFE	Aramid Fiber/Fiberglass Braid	PFA	-55	100

BMS 13-72

100 ohm Databus Cable

TYPE	CLASS	WIRE SIZE (AWG)	INSULATION	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
				MATERIAL	COATING	MATERIAL	COATING		MATERIAL	MIN
3	4	24	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	FEP	-55	150
4	4	22	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	FEP	-55	150
7	2	24	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	FEP	-55	150
8	2	24	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	FEP	-55	150

BMS 13-78

Arc Resistant, 1500V, Annealed Copper and Aluminum Wire and Cable

TYPE	CLASS		WIRE SIZE (AWG)		INSULATION TYPE & THICKNESS (MIL)	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
	MIN	MAX	MIN	MAX		MATERIAL	COATING	MATERIAL	COATING		MATERIAL	MIN
01	1	4	18	10	ETFE 25 mils	Annealed Copper	Nickel	--	--	--	-65	175
02	1	3	8	3/0	Flex-ETFE 33 mils	Annealed Copper - Fine Strand	Nickel	--	--	--	-65	175
03	1	3	8	4/0	Flex-ETFE 33 mils	Aluminum Fine Strand	--	--	--	--	-65	175
04	1	3	8	3/0	PTFE tape 33 mils	Annealed Copper - Fine Strand	Nickel	--	--	--	-65	260
05	1	4	18	10	ETFE 25 mils	Annealed Copper	Nickel	Copper Braid	Nickel	ETFE	-65	175
06	1	4	18	10	ETFE 25 mils	Annealed Copper	Nickel	Double Copper Braid	Nickel	ETFE	-65	175
07	1	3	18	10	PTFE tape 25 mils	Annealed Copper	Nickel	--	--	--	-65	260
08	1	4	18	12	PTFE tape 25 mils	Annealed Copper	Nickel	Copper Braid	Nickel	PTFE tape	-65	260
09	3	3	16	14	PTFE tape 25 mils	Annealed Copper	Nickel	Double Copper Braid	Nickel	PTFE tape	-65	260

BMS 13-80

Wire, Electric, Twinax, 120 Ohm, Data Bus Cable

TYPE	CLASS	WIRE SIZE (AWG)		INSULATION	CONDUCTOR		SHIELD		JACKET
		MIN	MAX		MATERIAL	COATING	MATERIAL	COATING	
1	2	26	20	PTFE	High Strength Copper Alloy	Silver	Flat Copper and Round Copper	Tin	Polyimide/PTFE
2	2	26	20	PTFE	High Strength Copper Alloy	Silver	Flat Copper and Round Copper	Tin	Polyimide/PTFE

BMS 13-83

100 Ohm Databus Cable

TYPE	CLASS	WIRE SIZE (AWG)	INSULATION	CONDUCTOR		SHIELD		JACKET	TEMPERATURE RATING (DEGREES C)	
				MATERIAL	COATING	MATERIAL	COATING		MATERIAL	MIN
3	4	24	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	Polyimide/PTFE	-55	150
4	4	22	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	Polyimide/PTFE	-55	150
7	2	24	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	Polyimide/PTFE	-55	150
8	2	24	PTFE	High Strength Copper Alloy	Silver	Flat and Round copper	Tin	Polyimide/PTFE	-55	150

S280W502

100 Ohm Data Bus Cable

TYPE	CLASS	WIRE SIZE (AWG)	INSULATION	CONDUCTOR		SHIELD		JACKET
				MATERIAL	COATING	MATERIAL	COATING	
1	2	24	PTFE	High Strength Copper Alloy	Silver	Flat Copper and Round Copper	Tin	FEP
3	4	22	PTFE	Annealed Copper	Silver	Flat Copper and Round Copper	Tin	FEP
4	4	24	PTFE	High Strength Copper Alloy	Silver	Flat Copper and Round Copper	Tin	FEP
6	2	24	PTFE	High Strength Copper Alloy	Silver	Flat Copper	Tin	FEP

Airbus Specification Wire & Cable

Hook up Wires - Airframe Wiring

Specifications			Construction	AWG Size	Rating Temp.
ASN/ABS/NSA		EN			
Ref.	Type	Ref.			
ASN E0261	CF	2266	<ul style="list-style-type: none"> ▪ Conductor : Nickel Plated Copper (AWG 22 to 10), High Strength Nickel Plated Copper Alloy (AWG 26 & 24) ▪ Insulation : Polyimide Tapes + Topcoat ▪ Suitable for UV Laser Marking 	26 to 10	200°C
ASN E0264	PF	2266	2 CF or EN 2266 Basic Cores Twisted Cable	26 to 10	200°C
ASN E0266	QF	2266	3 CF or EN 2266 Basic Cores Twisted Cable	26 to 10	200°C
ASN E0268	RF	2266	4 CF or EN 2266 Basic Cores Twisted Cable	26 to 10	200°C
ASN E0270	SJ	2713	1 CF or EN 2266 Basic Core + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide Tapes + Topcoat 	ASN 26 to 14 EN 26 to 10	200°C
ASN E0272	TK	2713	2 CF or EN 2266 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide Tapes + Topcoat 	ASN 26 to 12 EN 26 to 10	200°C
ASN E0274	UD	2713	3 CF or EN 2266 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide Tapes + Topcoat 	ASN 26 to 14 EN 26 to 12	200°C
	VL	2713	4 EN 2266 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide Tapes + Topcoat 	EN 26 to 14	200°C

Hook up Wires - Airframe Wiring

Arc Tracking & Hydrolysis Resistant - Hybrid Insulation Type

Specifications		Construction	AWG Size	Rating Temp.
Cable Code	EN			
Ref.	Ref.			
DM	2267-008A	<ul style="list-style-type: none"> ▪ Conductor : Nickel Plated Copper (AWG 22 to 06), High Strength Nickel Plated Copper Alloy (AWG 26 & 24) ▪ Insulation : Polyimide + PTFE Tapes ▪ Suitable for UV Laser Marking 	26 to 06	260°C
PN	2267-007B	2 DMA of EN 2267-007 Basic Cores Twisted Cable	26 to 06	260°C
QL	2267-007C	3 DMA of EN 2267-007 Basic Cores Twisted Cable	26 to 06	260°C
RK	2267-007D	4 DMA of EN 2267-007 Basic Cores Twisted Cable	26 to 06	260°C
GJ	2714-011A	1 DMA or EN 2267-007 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide + PTFE Tapes 	26 to 10	260°C
MH	2714-011B	2 DMA or EN 2267-007 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide + PTFE Tapes 	26 to 10	260°C
UU	2714-011C	3 DMA or EN 2267-007 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide + PTFE Tapes 	26 to 10	260°C
VV	2714-011D	4 DMA or EN 2267-007 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide + PTFE Tapes 	26 to 14	260°C
MJ	2714-012E	5 DMA or EN 2267-007 Basic Cores + Suitable for UV Laser Marking <ul style="list-style-type: none"> ▪ Shield : Nickel Plated Copper Spiral Shield ▪ Sheath : Polyimide + PTFE Tapes 	18 to 12	260°C

Hook up Wires - Airframe Wiring

Arc Tracking & Hydrolysis Resistant - Light Weight

Specifications		Construction	AWG Size	Rating Temp.
Cable Code	EN			
Ref.	Ref.			
DR	2267-010A	<ul style="list-style-type: none"> ▪ Conductor : Nickel Plated Copper (AWG 22 to 2), High Strength Nickel Plated Copper Alloy (AWG 26 & 24) ▪ Insulation : Special Polyimide Tape + PTFE Tape(s) ▪ Suitable for UV Laser Marking 	26 to 2	260°C
DRB	2267-009B	2 DRA of EN 2267-009A Basic Cores Twisted Cable	26 to 4	260°C
DRC	2267-009C	3 DRA of EN 2267-009A Basic Cores Twisted Cable	26 to 4	260°C
DRD	2267-009D	4 DRA of EN 2267-009A Basic Cores Twisted Cable	26 to 14	260°C
MLA	2714-013A	1 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	26 to 10	260°C
MLB	2714-013B	2 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	26 to 10	260°C
MLC	2714-013C	3 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	26 to 10	260°C
MLD	2714-013D	4 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	26 to 14	260°C
MME	2714-014E	5 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	18 to 12	260°C
MMF	2714-014F	6 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	On request	260°C
MMG	2714-014G	7 DRA or EN 2267-009A Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	24	260°C

Hook up Wires - Airframe Wiring

Arc Tracking & Hydrolysis Resistant - Hybrid Insulation Type - Aluminum Conductors

Specifications			Construction	AWG Size	Rating Temp.
ABS		EN			
Ref.	Type	Ref.			
ABS 0949	AD		<ul style="list-style-type: none"> ▪ Conductor : Nickel Copper Clad Aluminum (AWG 24 to 4), Nickel Plated Aluminum (AWG 3 to 000) ▪ Insulation : Special Polyimide Tape + PTFE Tape(s) ▪ Suitable for UV Laser Marking 	24 to 4 3 to 000	180°C
ABS 1354	ADB		2 ADA of ABS 1354 Basic Cores Twisted Cable	24 to 4 3 to 000	180°C
ABS 1354	ADC		3 ADA of ABS 1354 Basic Cores Twisted Cable	24 to 4 3 to 000	180°C
ABS 1354	ADD		4 ADA of ABS 1354 Basic Cores Twisted Cable	24 to 4 3 to 1	180°C
ABS 1354	ADE		1 ADA or ABS 1354 Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	24	180°C
ABS 1356	VNA		2 ADA or ABS 1354 Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	24 to 10	180°C
ABS 1356	VNB		3 ADA or ABS 1354 Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	24 to 10	180°C
ABS 1356	VNC		4 ADA or ABS 1354 Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	24 to 10	180°C
ABS 1356	VND		5 ADA or ABS 1354 Basic Core ▪ Shield : Nickel Plated Copper Spiral Shield Suitable for UV Laser Marking ▪ Sheath : Polyimide + PTFE Tapes	24 to 14	180°C

Coaxial Cables

Specifications				Construction	Overall Diameter (nominal) mm	Characteristic Impedance	Rating Temp.
ASN/ABS/NSA		EN	MILC 17				
Ref.	Type	Ref.	Ref.				
ECS 0757	KE		No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper Alloy ▪ Dielectric Core : PTFE ▪ Outer Conductor : 3 Silver Plated Copper Braids ▪ Jacket : 2 FEP Jackets 	3.45	50Ω	200°C
ASN E0406	WD	EN 4604-008	No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper ▪ Dielectric Core : Foamed FEP ▪ Outer Conductor : 2 Silver Plated Copper Braids ▪ Jacket : FEP 	7.70	50Ω	200°C
ASN E0691	WM	EN 4604-006	No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper ▪ Dielectric Core : Low Density PTFE ▪ Outer Conductor : 1 Silver Plated Copper Tape ▪ Jacket : FEP 	3.85	50Ω	200°C
ASN E0692	WN	EN 4604-007	No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper ▪ Dielectric Core : Low Density PTFE ▪ Outer Conductor : 1 Silver Plated Copper Tape + Silver Plated Copper Braid ▪ Jacket : PTFE 	8.00	50Ω	200°C
ASN E0752	WS	EN 4604-004	No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper ▪ Dielectric Core : PTFE ▪ Outer Conductor : Silver Plated Copper Braid + High Immunity Tape + Silver Plated Copper Braid ▪ Jacket : Polyimide Tape 	2.50	50Ω	200°C
	WZ	EN 4604-003	No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper ▪ Dielectric Core : Low Density PTFE ▪ Outer Conductor : 1 Metalized Foil + 1 Silver Plated Copper Braid ▪ Jacket : FEP 	3.55	50Ω	200°C
NSA 935 344	XE		M17/138 00001 RG 188 AU	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Annealed Copper Covered Steel ▪ Dielectric Core : PTFE ▪ Outer Conductor : 1 Silver Plated Copper Braid ▪ Jacket : PTFE 	2.70	50Ω	200°C
ASN E0293	XF		M17/175 00001 RG 400 U	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper ▪ Dielectric Core : PTFE ▪ Outer Conductor : 2 Silver Plated Copper Braids ▪ Jacket : FEP 	4.95	50Ω	200°C
ASN E0690	WL	EN 4604-005	No similar type	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Copper Alloy ▪ Dielectric Core : Low Density Fluorocarbon ▪ Outer Conductor : 2 Silver Plated Copper Braids ▪ Jacket : PFA 	2.30	75Ω	200°C
ASN E0634	WH		M17/137 00001	<ul style="list-style-type: none"> ▪ Inner Conductor : Silver Plated Annealed-Copper-Covered Steel ▪ Dielectric Core : PTFE ▪ Outer Conductor : 1 Silver Plated Copper Braid ▪ Jacket : PFA 	3.58	95Ω	200°C



Twinax Bus

Specifications			Construction	Overall Diameter (nominal) mm	AWG Size	Rating Temp.
ASN/ABS/NSA		EN				
Ref.	Type	Ref.				
ABS 0386	WF		Shielded & Sheathed 100 Ω Data Bus Twisted Pair ▪ Conductor : Nickel Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : Nickel Copper Braid ▪ Sheath : Polyimide Tapes	3.30	24	200°C
ASN E0259	HE		Shielded & Sheathed 125 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : Polyimide Tapes	4.50	24	150°C
ASN E0290	XM	EN 3375-006	Shielded & Sheathed 78 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : Polyimide Tapes	3.10	24	200°C
ASN E0849	HJ		Shielded & Sheathed 75 Ω Data Bus Twisted Pair ▪ Conductor : Nickel Plated High Strength Copper Alloy ▪ Insulation : Polyimide Tape(s) + PTFE Topcoat ▪ Shield : Nickel Plated Copper Braid + 2 High Immunity Tapes ▪ Sheath : Polyimide Tapes	3.00	26	200°C
ASN E0479	WJ	EN 4604-004-B	Shielded & Sheathed 77 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : 2 Tinned Plated Copper Braids ▪ Sheath : FEP	3.70	24	150°C
	WJ	EN 3375-004-B	Shielded & Sheathed 77 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : 2 Silver Plated Copper Braids ▪ Sheath : FEP	3.70	24	200°C
	WV	EN 3375-004-C	Shielded & Sheathed 77 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : Silver Plated Copper Braid + 1 High Immunity Tape + Silver Plated Copper Braid ▪ Sheath : FEP	3.80	24	200°C
ECS 0700	WW	EN 3375-005	Shielded & Sheathed 77 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : 2 Silver Plated Copper Braids ▪ Sheath : FEP	2.90	26	200°C
ASN E0811	WY		Shielded & Sheathed 77 Ω Data Bus Twisted Pair ▪ Conductor : Silver Plated Copper Alloy ▪ Insulation : PTFE ▪ Shield : 1 Silver Plated Copper Braid ▪ Sheath : FEP	2.50	26	200°C

Quad Ethernet

Specifications			Construction	Overall Diameter (nominal) mm	AWG Size	Rating Temp.
ASN/ABS/NSA		EN				
Ref.	Type	Ref.				
ABS 1503	KD		Shielded Quad Cable 100 Suitable for UV laser marking ▪ Conductor : Silver Plated Copper ▪ Insulation : FEP + Separator Tape ▪ Shield : 1 Silver Plated Copper Braid ▪ Sheath : FEP	4.40	24	125°C

Optical Cable

ABS 0963	003LF		Optical Fiber Cable ▪ Core : 62.5/125 Silica, Silicone coating 400um ▪ Jacket : Zero Halogen Copolymer ▪ Mechanical Strength : Polymer Aromatic Fiber Braid ▪ Outer Jacket : Zero Halogen Copolymer + FEP	1.8		125°C
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Special Cables

MBBN 3320	YH 004-006	EN 4049-004	Thermocouple Cable ▪ Conductors : Nickel Chromium/Nickel Aluminum ▪ Insulation : PTFE + Polyimide + PTFE Tapes ▪ Shield : Nickel Plated Copper Braid ▪ Jacket : Polyimide Tape + PTFE Tape	4.00 AWG 22 4.55 AWG20	22 to 20	260°C
ASN E0385	HH		FEP Sheathed Coil Cord 3 CF 16 + 3 CF 22 Basic Wires + 7 PTFE Fillers ▪ Sheath : FEP			200°C
ASN E0488	HL		FEP Sheathed Coil Cord 6 CF 24 + 2 CF 20 + 1 CF 16 Basic Wires ▪ Sheath : FEP			200°C
NSA 935 306	YK		Shielded & Sheathed Low Noise Twisted Pair ▪ Conductor : Silver Plated Annealed Copper-Cover Steel ▪ Insulation : PTFE + Low Noise Treatment ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : Polyimide + PTFE Tapes ▪ Jacket : Polyimide Tape + PTFE Tape	4.36 Max	22	260°C

Flight Test Cable

Specifications		Construction	Overall Diameter (nominal) mm	AWG Size	Rating Temp.
ASN/ABS/NSA					
Ref.	Type				
ASN E0409	BG	Suitable for UV laser marking ▪ Conductor : Nickel Plated Copper (suitable for solderability) ▪ Insulation : PTFE Tape	0.97	24	200°C
ASN E0410	SU	1 ASN E0409 BG Basic Core + Suitable for UV laser marking ▪ Shield : Nickel Plated Copper Spinning ▪ Sheath : Polyimide + PTFE Tape	1.42	24	200°C
ASN E0411	TV	2 ASN E0409 BG Basic Core Twisted Cable + PTFE + Separator Tape Suitable for UV laser marking ▪ Shield : Nickel Plated Copper Spinning ▪ Sheath : Polyimide + PTFE Tape	2.54	24	200°C
ASN E0412	VF	4 ASN E0409 BG Basic Cores Twisted Cable + PTFE Separator Tape + Suitable for UV laser marking ▪ Shield : Nickel Plated Copper Spinning ▪ Sheath : Polyimide + PTFE Tape	3.00	24	200°C
ASN E0413	HK	Thermocouple Cable ▪ Conductor : Nickel Chromium/Nickel Aluminum ▪ Insulation : PTFE Tape ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : Polyimide + PTFE Tape	2.70	24	260°C

Fire Resistant Cables

Specifications			Construction	AWG Size	Rating Temp.
ASN/ABS/NSA		EN			
Ref.	Type	Ref.			
ASN E0437	DL	EN 2346-003	▪ Conductor : 27% Nickel Clad Copper Alloy for AWG 22, 27% Nickel Clad Copper Alloy for other AWG ▪ Insulation : Silica Fiber + Fiberglass Braid + PTFE Tape ▪ Application : Fire Resistant Wires	22 to 16	260°C
ECS 0741	DW	EN 2346-005	▪ Conductor : 27% Nickel Clad Copper Alloy for AWG 22, 27% Nickel Clad Copper Alloy for other AWG ▪ Insulation : Fire Resistant Insulation + PTFE Tape ▪ Application : Fire Proof Wires ▪ Suitable for UV Laser Marking	22 to 14	260°C
ECS 0741	DWB	EN 2346-003	2 DWA Basic Cores Twisted Cable ▪ Application : Fire Proof Wires	22 to 14	260°C
ECS 0741	DWC	EN 2346-005	3 DWA Basic Cores Twisted Cable ▪ Application : Fire Proof Wires	22 to 14	260°C
ECS 0742	GPA	EN 4608-004	1 DWA Basic Core + Suitable for UV Laser Marking ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : PTFE Tapes ▪ Application : Fire Proof Wires	22 to 14	260°C
ECS 0742	GPB	EN 4608-004	2 DWA Basic Core + Suitable for UV Laser Marking ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : PTFE Tapes ▪ Application : Fire Proof Wires	22 to 14	260°C
ECS 0742	GPC	EN 4608-004	3 DWA Basic Core + Suitable for UV Laser Marking ▪ Shield : Nickel Plated Copper Braid ▪ Sheath : PTFE Tapes ▪ Application : Fire Proof Wires	22 to 14	260°C

Power Feeder Cables

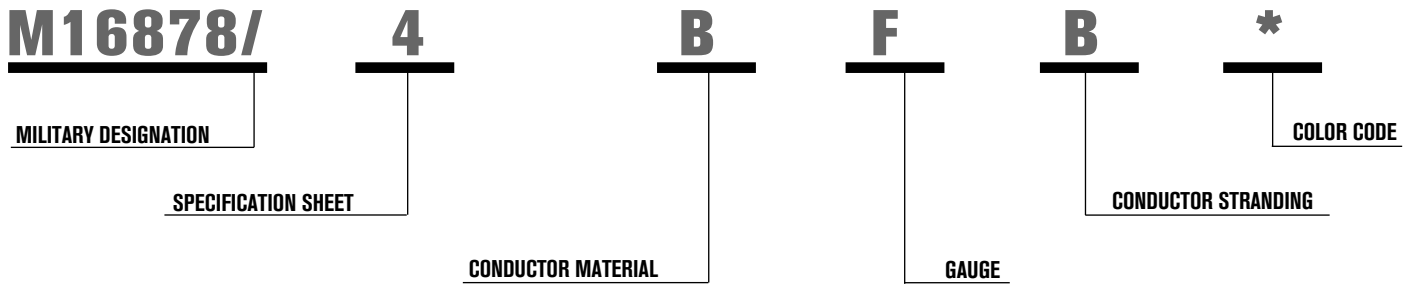
Specifications			Construction	AWG Size	Rating Temp.
ASN/ABS/NSA		EN			
Ref.	Type	Ref.			
ASN E0438	YV		▪ Conductor : Nickel Plated Aluminum Alloy ▪ Insulation : PTFE Tape + Aromatic Polyimide Braid coated with Nonflammable Lacquer	06 to 0000	180°C
ASN E0471	GP		3 ASNE0438 Basic Cores Twisted Cable	06	180°C
NSA 935 308	YU		▪ Conductor : Aluminum Alloy ▪ Insulation : Polyimide Tapes + Aromatic Polyimide Braid coated with Nonflammable Lacquer	04 to 0000	150°C
NSA 935 131	DG	EN 2854	▪ Conductor : Nickel Plated Copper ▪ Insulation : Composite Polyimide fiber glass Tape + PTFE Tape(s)	10 to 0000	260°C
ABS 0949	AD		▪ Conductor : Nickel Plated Aluminum ▪ Insulation : Special Polyimide Tape + PTFE Tape(s)	3 to 0000	180°C
ABS 1354	ADB, ADC, ADD		2, 3 or 4 ADA or ABS 1354 Basic Cores Twisted Cable	3 to 0000 3 to 1	180°C

Military Specification Wire and Cable

MIL-W-16878 (NEMA HP3, HP4)

PART NUMBER (Former) Mil-W-16878	PART NUMBER (Replacement) Mil-W-22759
Mil-W-16878/4-B	Mil-W-22759/11
Mil-W-16878/4-D	Mil-W-22759/22

Part Number Breakdown



CONDUCTOR MATERIAL

A = Bare Copper; B = Coated Copper; C = Coated Copper-Covered Steel; D = Coated High Strength Copper Alloy

Gauge

AWG	Letter	AWG	Letter	AWG	Letter	AWG	Letter
32	A	20	G	10	M	1	T
30	B	18	H	8	N	0	U
28	C	16	J	6	P	00	W
26	D	14	K	4	R	000	Y
24	E	12	L	2	S	0000	Z
22	F						

Conductor Stranding

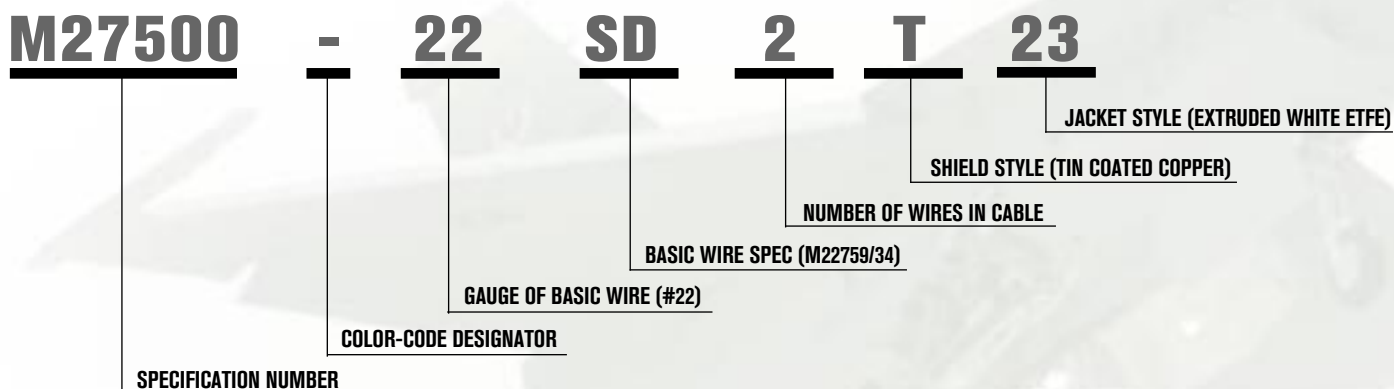
Number of Strands	Letter	Number of Strands	Letter	Number of Strands	Letter	Number of Strands	Letter
1	A	26	F	133	L	1045	S
7	B	37	G	259	M	1330	T
10	C	41	H	427	N	1672	V
16	D	65	J	665	P	2109	W
19	E	105	K	817	R		

Color Code

Color	No. Designator	AWG	Letter	Color	No. Designator
Black	0	Yellow	4	Gray	8
Brown	1	Green	5	White	9
Red	2	Blue	6		
Orange	3	Violet	7		

Military Specification Wire and Cable

NEMA WC27500 (Formerly MIL-DTL-M27500)



Basic Wire Specification & Symbol

SYMBOL	SPECIFICATION	SYMBOL	SPECIFICATION	SYMBOL	SPECIFICATION
A	Mil-W-5086/1	ML	Mil-W-81044/12	SP	Mil-W-22759/43
AA	Mil-W-5086/5	MM	Mil-W-81044/13	SR	Mil-W-22759/44
AB	Mil-W-5086/6	MR	Mil-W-81381/7	SS	Mil-W-22759/45
AD	Mil-W-5086/7	MS	Mil-W-81381/8	ST	Mil-W-22759/46
B	Mil-W-5086/2	MT	Mil-W-81381/9	TA	Mil-W-22759/8
C	Mil-W-5086/3	MV	Mil-W-81381/10	TE	Mil-W-22759/16
CA	Mil-W-22759/13	MW	Mil-W-81381/11	TF	Mil-W-22759/17
CB	Mil-W-22759/14	MY	Mil-W-81381/12	TG	Mil-W-22759/18
CC	Mil-W-22759/15	NA	Mil-W-81381/13	TH	Mil-W-22759/19
E	Mil-W-22759/2	NB	Mil-W-81381/14	TK	Mil-W-22759/20
EA	Mil-W-22759/1	NE	Mil-W-81381/17	TL	Mil-W-22759/21
F	Mil-W-8777, MS27110	NF	Mil-W-81381/18	TM	Mil-W-22759/22
H	Mil-W-8777, MS25471	NG	Mil-W-81381/19	TN	Mil-W-22759/23
JA	Mil-W-25038/1	NH	Mil-W-81381/20	VA	Mil-W-22759/5
JB	Mil-W-22759/28	NK	Mil-W-81381/21	WA	Mil-W-22759/6
JC	Mil-W-22759/29	NL	Mil-W-81381/22	WB	Mil-W-22759/80
JD	Mil-W-22759/30	P	Mil-W-5806/4	WC	Mil-W-22759/81
JE	Mil-W-22759/31	RA	Mil-W-22759/3	WE	Mil-W-22759/82
JF	MIL-W-25038/3	RB	Mil-W-22759/4	WF	Mil-W-22759/83
LE	Mil-W-22759/9	RC	Mil-W-22759/11	WG	Mil-W-22759/84
LH	Mil-W-22759/10	RE	Mil-W-22759/12	WH	Mil-W-22759/85
MD	Mil-W-81044/5	SA	Mil-W-22759/7	WJ	Mil-W-22759/86
ME	Mil-W-81044/6	SB	Mil-W-22759/32	WK	Mil-W-22759/87
MF	Mil-W-81044/7	SC	Mil-W-22759/33	WL	Mil-W-22759/88
MG	Mil-W-81044/8	SD	Mil-W-22759/34	WM	Mil-W-22759/89
MH	Mil-W-81044/9	SE	Mil-W-22759/35	WN	Mil-W-22759/90
MJ	Mil-W-81044/10	SM	Mil-W-22759/41	WP	Mil-W-22759/91
MK	Mil-W-81044/11	SN	Mil-W-22759/42	WR	Mil-W-22759/92

Shield Style

SYMBOL	DOUBLE SHIELD	SHIELD STYLE	SHIELD MAX TEMP
U	--	No Shield	--
T	V	Tin Coated Copper, Round	150°C (302°F)
S	W	Silver Coated Copper, Round	200°C (392°F)
N	Y	Nickel Copper, Round	260°C (500°F)
F	Z	Stainless Steel, Round	400°C (752°F)
C	R	Heavy Nickel Coated Copper, Round	400°C (752°F)
M	K	Silver Coated High-Strength Copper Alloy, Round	200°C (392°F)
P	L	Nickel Coated High-Strength Copper Alloy, Round	260°C (500°F)
G	A	Silver Coated Copper, Flat	200°C (392°F)
H	B	Silver Coated High Strength Copper Alloy, Flat	200°C (392°F)
*	#	Nickel Coated Copper, Flat	260°C (500°F)
J	D	Tin Coated Copper, Flat	150°C (302°F)
E	X	Nickel Coated High Strength Copper Alloy, Flat	260°C (500°F)
I	Q	Nickel Chromium Alloy, Flat	400°C (752°F)



Jacket Style

SINGLE JACKET SYMBOL	DOUBLE JACKET SYMBOL	JACKET STYLE	TEMP. LIMIT FOR JACKET MATERIAL
00	00	No Jacket	--
01	51	Extruded White PVC	90°C (194°F)
02	52	Extruded Clear Polyamide in accordance with ASTM D4066	105°C (221°F)
03	53	White Polyamide Braid impregnated with Clear Polyamide Finisher over Polyester Tape	105°C (221°F)
04	54	Polyester Braid impregnated with High Temp Finishers over Polyester Tape	150°C (302°F)
05	55	Extruded Clear FEP	200°C (392°F)
06	56	Extruded or Taped and Heat Sealed White PTFE	260°C (500°F)
07	57	White PTFE Treated Glass Braid impregnated and Coated with PTFE Finisher over Presintered PTFE Tape	260°C (500°F)
08	58	Crosslinked White Extruded Polyvinylidene (PVF)	150°C (302°F)
09	59	Extruded White FEP	200°C (392°F)
10	60	Extruded Clear PVF	125°C (257°F)
11	61	Tape of Natural Polyamide/FEP Heat Sealed with FEP outer surface	200°C (392°F)
12	62	Tape of Natural Polyamide/FEP Wrapped and Heat Sealed with Polyamide Outer Surface	200°C (302°F)
14	64	Extruded White ETFE (tefel)	150°C (302°F)
15	65	Extruded Clear ETFE (tefel)	150°C (302°F)
16	66	Braid of Aromatic Polyamide with Hig-Temp Finisher over Presintered PTFE Tape (Nomex)	200°C (392°F)
17	67	White Extruded ECTFE	150°C (302°F)
18	68	Clear Extruded ECTFE	150°C (302°F)
20	70	Extruded White PFA	260°C (500°F)
21	71	Extruded Clear PFA	260°C (500°F)
22	72	Tape of Polyamide/FEP Wrapped and Heat Sealed with Opaque Polyamide Outer Surface	200°C (392°F)
23	73	White Crosslinked Extruded Modified XLETFE	200°C (392°F)
24	74	Tape Layer of PTFE Wrapped over a Tape Layer of Natural Polyamide Combined with FEP and Heat Sealed	200°C (392°F)

Color Code

DESIGNATION	1 COND	2 COND	3 COND	4 COND	5 COND	6 COND	SHIELD COVERAGE
--	9	9, 96	9, 96, 93	9, 96, 93, 95	9, 96, 93, 95, 92	9, 96, 93, 95, 92, 90	85%
A		9, 6	9, 6, 3	9, 6, 3, 5	9, 6, 3, 5, 2	9, 6, 3, 5, 2, 0	85%
B	Solid color, color denotes wire size (refer table III C, per spec), Identify by banding marks (refer table III D, per spec)						85%
C	Same as "--"						90%
D	Same as "A"						90%
E	Same as "B"						90%
F		92, 96	92, 96, 94	92, 96, 94, 95	92, 96, 94, 95, 9	92, 96, 94, 95, 9, 90	85%
G		2, 6	2, 6, 4	2, 6, 4, 5	2, 6, 4, 5, 9	2, 6, 4, 5, 9, 0	85%
H		92, 96	92, 96, 94	92, 96, 94, 95	92, 96, 94, 95, 9	92, 96, 94, 95, 9, 90	90%
J		2, 6	2, 6, 4	2, 6, 4, 5	2, 6, 4, 5, 9	2, 6, 4, 5, 9, 0	90%
K	Solid color, color denotes wire size (refer table III C, per spec), Identify wire by numbering						85%
L	Insulation shall be white or natural, Identify wire by numbering (refer table III D per spec)						85%
M	Same as "K"						90%
N	Same as "L"						90%

Aerospace Grade 10/100/1000BASE-T Ethernet Cables

IMPEDANCE	AWG	DESCRIPTION
100 ohms	#20	QUAD
100 ohms	#22	QUAD
100 ohms	#22	SHIELDED PAIRS
100 ohms	#24	QUAD
100 ohms	#24	SHIELDED PAIRS
100 ohms	#26	QUAD

Shielding consists of inner flat Tin or Silver, and outer round Tin or Silver braids.
The Jackets are extruded FEP. The cables are rated for maximum service at 150° C (Tin), and 200° C (Silver).

Applications

- Fiber Channel
- Ethernet 10/100/1000 BaseT
- Arinc 628, 629 & 664
- LVDS
- USB
- IEEE 1394
- CEPT-E1
- CAN BUS
- Digital Video Interface (DVI)
- Serial ATA

High Speed Transmissions

The use of extruded, expanded PTFE as the dielectric provides the best time delay performance and the lowest loss. The result is lower attenuation and a larger bandwidth.

Low Smoke and Flame Generation

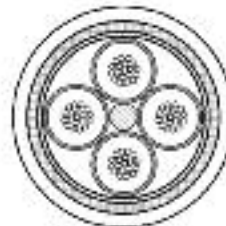
- Flammability meets or exceeds FAR25.869 requirements.
- Smoke and toxicity meet or exceed Boeing and Airbus requirements.

Custom Designs Available

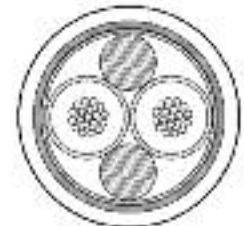
There are a variety of configurations from simple twisted, shielded pairs, full duplex and quad cables to complex multi-conductor designs.



Individual
(Duplex)



Quad
(Duplex)



Twisted Pair
(Simplex)



Controlled Impedance Data Cables

Variety of Aerospace Grade Cables in stock

Custom Composite Cable Design Capability



Contact CarlisleIT for assistance in selecting cable suitable for applications such as:

- Fiber Optic
- Broadband
- RS232
- RS422
- RS485
- USB
- ARINC 429
- ARINC 746
- Video
- Custom Applications

Spectrum Capris 50-300ES & Spectrum Capris 60 Ultraviolet Laser Marking

- Laser Marking offers a non-destructive and effective alternative to the traditional “Hot Stamping” method of wire marking
- Clear print, quality mark
- Variable font sizes
- Permanent under all known operating conditions with no effect on the wire’s electrical or mechanical properties
- We offer marking of single conductor wires/jacketed multi conductor cables, shielded and unshielded
- We offer marking of white and colored insulations including PTFE, ETFE, XLETFE and FEP
- Marks horizontally and vertically
- 96 characters per identification
- Complies with Mil-W-5088L and BAC5152 specs



Test Capabilities

Equipment:

- Omnitester Model 2501
- Cirris 1500V Touch-1 Systems
- Cable Scan
- Fluke 8842 Meter
- HP RF Network Analyzer HP8714C
- Fluke DSP 4300 & DTX
- Fluke LCR Bridge
- Slaughter AC Hi-Pot

Available Tests:

- Insulation Resistance (IR)
- Dielectric Withstand Voltage (DWV)
- Continuity & Isolations
- RF Testing
- Components, resistors, capacitors and Diodes
- Custom Testing



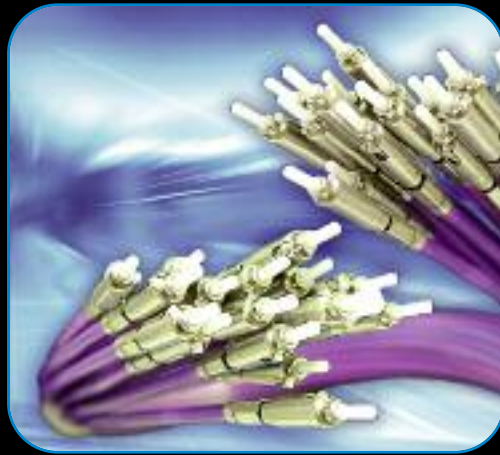
Cirris 1500V Touch-1 test station: 256 and 384 point stations on the production floor. Expandable up to 1024 test points.



Fiber Optic: Single and multimode testing.

Test reports available upon request

Carlisle Interconnect Technologies is one of the world's leading designers and manufacturers of high performance interconnect systems. The skills and expertise we've developed over a half-century in business provide customers with resources of technical leadership and in-depth knowledge of their industry. The net results are cabling and interconnect solutions that meet and exceed our customers' expectations.



Please contact us for your manufactured cable needs.

Other Products and Services

Bulk Wire & Cable

- Tufflite® - General Purpose Airframe Wire
- Netflight® - Copper Databus Cables
- LITEflight™ - Optical Fiber
- AccuPhase® - Microwave Coaxial Cable
- Stocking and Distribution Services
- Military Spec & Industry Standard Cables

Connectors

- RF and Microwave Connectors
- Filter Connectors
- Specialty

Custom Components

- Backshells
- EZMount® Electronic Flight Bag (EFB) Arms
- Structural and Mechanical Components

Kitting

- Loose Parts Kits
- Mechanical Mounting Tray Kits
- Integrated Installation Kits
- Doubler & Antenna Kits

Cable Assemblies

- Custom Build-to-Print or Custom Designed
- Aerospace and Defense Assemblies
- Harsh Environment Fiber Optic Assembly
- AccuPhase® and Other Microwave Assemblies
- HDRFI® - High Density RF Interconnect
- HDSI® - High Density Shielded Interconnect

Structures

- ARINC and Custom Trays
- LRU Enclosures
- Instrument Panels
- Integrated Structures

Engineering Services

- Avionics Systems Integration
- Structured & Mechanical Design
- Cooling / Filtration / Shock Vibration
- RF & Electrical Component / Assembly Design
- Full Certification Support



Memberships

- SAE-Society of Automotive Engineers
- ARINC Standards Committee
- WAEA - World Airline Entertainment Association
- NBAA - National Business Aviation Association
- WHMA - Wire Harness Manufacturer's Association
- AEA - American Electronics Association
- BICSi - Registered Communication Distribution Designers (RCDD)
- Boeing Approved Quality System
- FAA Approved Quality Systems
- UL - Underwriters Laboratory
- CSA - Canadian Standards Association
- ASQ - American Society of Quality
- ISO 9001:2000 Certified





6801 SOUTH 180TH ST. TUKWILA, WA 98188
TEL: 800.227.5953 FAX: 425.251.8826
sales@CarlisleIT.com

www.CarlisleIT.com

Tensolite JERRIK EGS  

CARLISLE
INTERCONNECT TECHNOLOGIES