



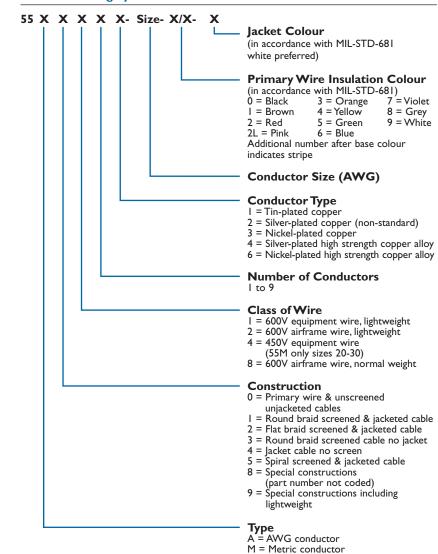
SPEC 55 wire is insulated with modified radiation cross-linked ETFE polymer. It is available as single-wall or as a dual-wall construction when used as an airframe wire. Chosen for its balance of properties, SPEC 55 wire has outstanding resistance to chemicals and solvents, electrical arc track resistance and is not susceptible to UV and moisture degradation. SPEC 55 wire is lightweight and can be used continuously at temperatures up to 200°C and as such is widely used on aircraft, satellites and in formula one autosport harness systems.

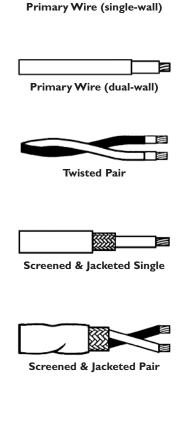


Technical Characteristics

Continuous operating temperature	Tin-plated copper	-65°C to +150°C
	Silver or nickel-plate	d
	copper	-65°C to +200°C
Voltage rating	450V and 600V	

Part Numbering System







/ = Space wire

Part Numbering Information

SPEC 55 wire & cable: Standard constructions, sizes, strandings, diameters and weights.

55A-AWG conductor: Equipment/Interconnect wires & cables

		55A	011X	55A012X		55AIIIX		55A112X	
	Stranding	OD	Weight	OD	Weight	OD	Weight	OD	Weight
Size	(mm)	(mm)	(g/m)	(mm)	(g/m)	(mm)	(g/m)	(mm)	(g/m)
30	7/0.102	0.61	0.98	1.27	1.94	1.51	5.10	2.12	7.74
28	7/0.127	0.68	1.35	1.42	2.68	1.59	5.80	2.27	8.90
26	19/0.102	0.81	2.10	1.67	4.20	1.71	6.85	2.53	11.32
24	19/0.127	0.94	2.98	1.93	5.96	1.84	8.20	2.80	13.86
22	19/0.160	1.09	4.20	2.23	8.60	1.99	10.30	3.07	17.90
20	19/0.203	1.27	6.40	2.66	13.26	2.20	13.40	3.50	23.80
18	19/0.250	1.52	9.70	3.20	19.57	2.45	17.88	4.10	32.60
16	19/0.287	1.73	12.40	3.58	25.80	2.67	21.75	4.43	39.70
14	19/0.360	2.20	19.40	4.47	39.60	3.10	30.40	5.30	57.00
12	37/0.320	2.62	29.35	5.38	60.00	3.55	42.46	6.30	81.20
10	37/0.403	3.25	47.40	6.65	96.70	4.20	62.70	-	-
8	133/0.287	4.77	87.60	9.80	178.80	5.80	110.50	-	-

55A-AWG conductor: Airframe wires & cables

		55A081X		55A082X		55A181X		55A182X	
	Stranding	OD	Weight	OD	Weight	OD	Weight	OD	Weight
Size	(mm)	(mm)	(g/m)	(mm)	(g/m)	(mm)	(g/m)	(mm)	(g/m)
26	19/0.102	1.01	2.50	2.10	5.10	1.71	6.85	2.63	11.32
24	19/0.127	1.14	3.40	2.33	6.84	1.84	8.20	2.80	13.86
22	19/0.160	1.27	4.80	2.64	9.98	1.99	10.30	3.07	17.90
20	19/0.203	1.47	7.00	3.07	14.75	2.20	13.40	3.50	23.80
18	19/0.250	1.78	10.70	3.63	21.90	2.45	17.88	4.10	32.60
16	19/0.287	1.95	13.40	4.06	27.50	2.67	21.75	4.43	39.70
14	37/0.360	2.40	20.50	4.90	42.30	3.10	30.40	6.30	57.00
12	37/0.320	2.82	30.50	5.80	63.00	3.55	42.46	6.30	81.20
10	37/0.403	3.40	48.30	7.10	99.10	4.20	62.70	-	-

55M-Metric conductor: Lightweight equipment wires & cables

		55M041X		55M042X		55M141X		55M142X	
	Stranding	OD	Weight	OD	Weight	OD	Weight	OD	Weight
Size	(mm)	(mm)	(g/m)	(mm)	(g/m)	(mm)	(g/m)	(mm)	(g/m)
32	7/0.08	0.46	0.60	0.92	1.24	-	-	-	-
30	7/0.10	0.53	0.90	1.06	1.85	1.18	3.61	1.75	5.51
28	7/0.13	0.61	1.23	1.22	2.54	1.26	4.12	1.87	6.72
26	19/0.10	0.71	1.92	1.42	3.96	1.35	4.92	2.07	8.93
24	19/0.13	0.84	2.84	1.68	5.86	1.49	6.50	2.33	11.54

X = I - Tin-plated copper

4 - Silver-plated high strength copper alloy.

Recommended for size 24 and 26 in airframe applications.

Availability

Specifications: MIL-W-22759/32-35 and /41 to /46 and NEMA-WC-27500 (Cables)

Def Stan 61-12 Part 33

VG95218 Part 20, Type D; Part 21, Type A; Part 22, Type A; Part 23, Type A; Part 1001 and Part 1002

VDE 9426, 9427, 9428 British Standard 3G233

Civil Aviation Authority Accessory Approval E11749

Boeing BMS 13-48 Airbus ABS 0820 to 0826

Underwriters Laboratory Style 3467 NASA preferred product list

European Space Agency 3901/012, 3901/020 and 3901/022



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