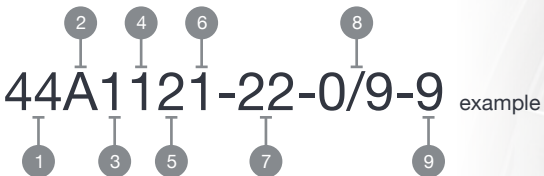


# Build Your Part Number



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## 1 BASIC SPECIFICATION

Spec 44 or Spec 55 - High performance wire and cable

## 2 TYPE

A	= AWG	M	= 450V Metric
D	= Def Stan 61-12 pt 26 (Spec 44)	/	= Space wire or special constructions
D	= Def Stan 61-12 pt 33 (Spec 55)		

## 3 CONSTRUCTION

0	= Primary wire	4	= Jacketed NO shield (2 core or more)
1	= Round braid shielded and jacketed	5	= Spirally shielded and jacketed
2	= Flat braid shielded and jacketed	6-9	= Special constructions
3	= Round braid shielded NO jacket		

## 4 VOLTAGE - 44 Wire

1	= 600V wire
2	= 1000V wire
3	= 2500V wire
8	= 600V Airframe wire

## VOLTAGE - 55 Wire

1	= 600V single wall wire
4	= 450V single wall wire
8	= 600V dual wall airframe wire
2	= 1000V wire

## 5 NUMBER OF CONDUCTORS

1 through to 9

## 6 CONDUCTOR TYPE

1	= Tin plated copper	4	= Silver plated high strength Cu alloy
2	= Silver plated copper	5	= Aluminium (Spec 44 only)
3	= Nickel plated copper	6	= Nickel plated high strength Cu alloy

## 7 CONDUCTOR SIZE

30 to 000 AWG

## 8 WIRE INSULATION COLOUR CODE

0	= Black	3	= Orange	7	= Violet
1	= Brown	4	= Yellow	8	= Grey
2	= Red	5	= Green	9	= White
2L	= Pink	6	= Blue	45	= Yellow/Green

## 9 JACKET COLOUR

See colour codes above

Harnessing and Electro-Mechanical Solutions  
for Demanding, Harsh Environment Applications

Spec 44 and 55

Performance Wire and Cable

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# Spec 44

Wire & Cable

Dual Wall Equipment Wire  
XL-PVDF

Temp	-65°C to 150°C						
Volts	600V	1000V	2500V	600V	600V	600V	600V
Cores							
Conductor Size (AWG)	44A0111 Primary wire	44A0211 Primary wire	44A0311 Primary wire	44A1111 Screened & Jacketed	44A0121 Twisted pair	44A1121 Screened & Jacketed	44A1131 Screened & jacketed
	Outside Diameter (mm) nominal						
30	0.69	-	-	1.40	1.37	2.23	2.33
28	0.76	-	-	1.47	1.52	2.38	2.49
26	0.86	1.02	1.34	1.57	1.73	2.59	2.82
24	1.02	1.17	1.45	1.83	2.03	2.99	3.15
22	1.19	1.37	1.75	2.00	2.38	3.35	3.56
20	1.40	1.57	1.98	2.26	2.79	3.76	3.99
18	1.65	1.85	2.23	2.62	3.30	4.32	4.57
16	1.83	2.06	2.46	2.79	3.65	4.67	4.98
14	2.26	2.49	2.92	3.22	4.52	5.53	5.89
12	2.75	2.97	3.33	3.70	5.48	-	6.99

# Spec 55

Wire & Cable

Equipment & Airframe Wire  
XL-ETFE

Temp	-65°C to 150°C Tin plated Cu   +200°C Nickel or Silver plated Cu									
Volts	600V	600V	450V	600V	600V	600V	600V	600V	600V	600V
Cores										
Conductor Size (AWG)	55A0111 Primary wire	55A0811 Airframe wire <sup>55A0814</sup> SPHSCA	55M0414 Primary wire	55A1111 Screened & Jacketed	55A1811 Screened & Jacketed	55A0121 Twisted pair	55A0821 Twisted pair <sup>55A0824</sup> SPHSCA	55A1121 Screened & Jacketed	55A1131 Screened & Jacketed	
	Outside Diameter (mm) nominal									
30	0.61	-	0.51	1.45	1.65	1.22	-	2.06	2.16	
28	0.69	-	0.58	1.52	1.73	1.37	-	2.21	2.31	
26	0.81	1.02*	0.69	1.65	1.85	1.62	2.03*	2.46	2.59	
24	0.94	1.14*	0.81	1.78	1.98	1.87	2.28*	2.72	2.87	
22	1.09	1.27	-	1.93	2.13	2.18	2.54	3.02	3.20	
20	1.27	1.47	-	2.14	2.33	2.59	2.95	3.43	3.63	
18	1.52	1.78	-	2.39	2.61	3.09	3.56	3.94	4.19	
16	1.73	1.96	-	2.59	2.82	3.50	3.91	4.34	4.62	
14	2.16	2.39	-	3.02	3.25	4.37	4.78	5.21	5.61	
12	2.62	2.82	-	3.48	3.68	5.28	5.64	6.17	6.60	

# Conductor Data

Conductor Size (AWG)	No. Strands / Diameter (mm)	Conductor OD (mm) nominal	Cross Sectional Area (mm <sup>2</sup> )	Maximum resistance (Tinned Cu) Ohms/km max @ 20°C	Current carrying capacity (amps) for 30°C rise above 20°C ambient
	Conductor Sizing & Performance Guide				
30	7/0.10	0.30	0.06	356.0	2.2
28	7/0.13	0.38	0.09	225.0	2.9
26	19/0.10	0.50	0.16	135.0	4.1
24	19/0.13	0.63	0.24	86.0	5.5
22	19/0.16	0.80	0.38	53.2	7.4
20	19/0.20	1.00	0.62	32.4	10.0
18	19/0.25	1.25	0.96	20.4	14.0
16	19/0.29	1.44	1.23	15.8	15.5
14	19/0.36	1.80	1.94	9.9	21.0
12	37/0.32	2.24	2.97	6.6	28.0

Current carrying capacities are for a single wire and should be de-rated for bundles and or higher than 20°C ambient temperature. Contact us for more information