



HOW CAN I HELP?



Equipment Wires

(Def-Stan 61-12 Part 6)

- Equipment Wire are flexible wires that are used for the internal wiring of electrical and electronic equipment, such as computer and data processing equipment and lighting, automotive and harness assemblies.
- Type 2 PVC max 1000V AC -15°C to +85°C stranded wires 7/0.2, 16/0.2 & 24/0.2
- Type 3 PVC max 1500V AC -20°C to +85°C stranded wires 16/0.2, 24/0.2 & 32/0.2
- Offered in a variety of insulation materials, sizes and colours. Equipment wires can be single or multi-cored as well as having the possibility to be braided or screened to meet requirements.

Multicore Cables

(Def-Stan 61-12 part 4 & part 5)

- Since the original Def Stan specifications were published designers have taken advantage of these very successful products in many other applications where resilience and reliability are required. Further, as equipment chemistry has advanced, extensions to the specifications have included additional insulating materials. Their applications include use in heavy industrial environments, avionic control systems and computer and data processing.
- Part 4 cables: 2 to 36 conductors with 7/0.2 tinned copper stranded wires, Unscreened, Overall Braid Screened, Individual Screened Cores & Overall Foil Screened.
- Part 5 Cables: 2 to 25 conductors with 16/0.7 tinned copper stranded wires, Unscreened, Overall Braid Screened, Individual Screened Cores & Overall Foil Screened.
- Both part 4 & part 5 available in PVC, Low Smoke Zero Halogen (LSOH) & Polyurethane (PE/PU) options

Cable & Wire Re-Spooling

- Aerco can offer in standard reel sizes (100m, 500m & 1,000m) plus wires can be spooled in reel sizes to suit your production requirements.

Def Stan 61-12 PART 4 Cable



Defence Standard Def Stan 61-12 Part 4 describes compact multi-core, multi-stranded cables for use in high-intensity applications including data processing, process control and other industrial applications.

Individual wires are made up from 16 strands of 0.20mm tinned copper wire Type 2 PVC insulated with Type TM2 PVC outer jacket. Options available include a collective tinned copper braid screen, or with individually screened cores. Available in lengths of 100m, 500m, 1000m and 5000m

The cables are also available in heat resisting PVC, Low Smoke Zero Halogen (LSOH) and Polyurethane (PE/PU) equivalents, please ask for more information

Unscreened

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
7-2-2A	2	7/0.20 TCW	3.10	3.60	13
7-2-3A	3	7/0.20 TCW	3.30	3.80	16
7-2-4A	4	7/0.20 TCW	3.36	4.10	20
7-2-6A	6	7/0.20 TCW	4.30	4.80	30
7-2-12A	12	7/0.20 TCW	5.80	6.40	53
7-2-18A	18	7/0.20 TCW	7.10	7.70	80
7-2-25A	25	7/0.20 TCW	8.40	9.00	100
7-2-36A	36	7/0.20 TCW	9.50	10.10	140

Collectively Screened

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
7-2-2C	2	7/0.20 TCW	3.40	4.10	23
7-2-3C	3	7/0.20 TCW	3.60	4.30	27
7-2-4C	4	7/0.20 TCW	3.70	4.60	32
7-2-6C	6	7/0.20 TCW	4.70	5.90	55
7-2-12C	12	7/0.20 TCW	6.10	7.20	83
7-2-18C	18	7/0.20 TCW	7.90	8.50	110
7-2-25C	25	7/0.20 TCW	9.20	9.80	150
7-2-36C	36	7/0.20 TCW	10.40	11.20	200

Individual Screened Cores

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
7-2-2D	2	7/0.20 TCW	4.00	4.50	22
7-2-3D	3	7/0.20 TCW	4.30	4.80	29
7-2-4D	4	7/0.20 TCW	4.80	5.40	40
7-2-6D	6	7/0.20 TCW	5.80	6.40	58
7-2-12D	12	7/0.20 TCW	7.90	8.50	110
7-2-18D	18	7/0.20 TCW	9.30	9.90	150
7-2-25D	25	7/0.20 TCW	11.30	12.10	210
7-2-36D	36	7/0.20 TCW	12.70	13.50	290

Overall Foil Screened

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
7-2-25	2	7/0.20 TCW	3.65	4.15	23
7-2-35	3	7/0.20 TCW	3.75	4.25	28
7-2-45	4	7/0.20 TCW	4.23	4.97	31
7-2-65	6	7/0.20 TCW	5.25	5.75	52
7-2-125	12	7/0.20 TCW	6.50	7.10	79
7-2-185	18	7/0.20 TCW	7.60	8.20	103
7-2-255	25	7/0.20 TCW	8.50	9.10	141
7-2-365	36	7/0.20 TCW	10.20	10.80	175

Ordering: Example 7-2-6A-PVC-100M

Strands per wire	Wire size mm	Conductors	Screen	Material	LENGTH
7	-2	-6	-A	PVC	-100M
<i>Translates to:</i>	7/0.2mm	6 wires	Unscreened	Type 2 PVC	100m reel

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Def Stan 61-12 PART 5 Cable



Defence Standard Def Stan 61-12 Part 5 describes compact multi-core, multi-stranded cables for use in high-intensity applications including data processing, process control and other industrial applications.

Individual wires are made up from 16 strands of 0.20mm tinned copper wire Type 2 PVC insulated with Type TM2 PVC outer jacket. Options available include a collective tinned copper braid screen, or with individually screened cores. Available in lengths of 100m, 500m, 1000m and 5000m

The cables are also available in heat resisting PVC, Low Smoke Zero Halogen (LSOH) and Polyurethane (PE/PU) equivalents, please ask for more information

Unscreened

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
16-2-2A	2	16/0.20 TCW	5.10	5.90	34
16-2-3A	3	16/0.20 TCW	5.40	6.20	42
16-2-4A	4	16/0.20 TCW	5.90	6.70	52
16-2-6A	6	16/0.20 TCW	6.90	7.70	75
16-2-12A	12	16/0.20 TCW	9.10	9.90	120
16-2-18A	18	16/0.20 TCW	10.50	11.50	180
16-2-25A	25	16/0.20 TCW	12.60	13.60	230

Collectively Screened

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
16-2-2C	2	16/0.20 TCW	4.45	4.95	69
16-2-3C	3	16/0.20 TCW	4.75	5.25	79
16-2-4C	4	16/0.20 TCW	5.90	5.90	92
16-2-6C	6	16/0.20 TCW	6.10	6.10	120
16-2-12C	12	16/0.20 TCW	8.30	8.30	180
16-2-18C	18	16/0.20 TCW	9.80	9.80	250
16-2-25C	25	16/0.20 TCW	11.80	11.80	320
16-2-32C	32	16/0.20 TCW	13.40	13.40	450

Individual Screened Cores

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
16-2-2D	2	16/0.20 TCW	6.00	6.80	47
16-2-3D	3	16/0.20 TCW	6.40	7.20	60
16-2-4D	4	16/0.20 TCW	7.00	7.80	75
16-2-6D	6	16/0.20 TCW	8.30	9.10	110
16-2-12D	12	16/0.20 TCW	10.80	11.80	190
16-2-18D	18	16/0.20 TCW	12.80	13.80	270
16-2-25D	25	16/0.20 TCW	15.30	16.50	360

Overall Foil Screened

Code	No of Cores	Conductor	Diameter mm		Weight (Kg / Km)
			Min.	Max	
16-2-2S	2	16/0.20 TCW	4.40	5.20	37
16-2-3S	3	16/0.20 TCW	5.60	6.40	55
16-2-4S	4	16/0.20 TCW	5.80	6.60	80
16-2-6S	6	16/0.20 TCW	6.80	7.60	81
16-2-12S	12	16/0.20 TCW	9.30	10.10	132
16-2-18S	18	16/0.20 TCW	12.10	13.10	198
16-2-25S	25	16/0.20 TCW	13.60	14.60	269

Ordering: Example 16-2-6A-PVC-100M

Strands per wire	Wire size mm	Conductors	Screen	Material	LENGTH
16	-2	-6	-A	-PVC	-100M
Translates to:	16/0.2mm	6 wires	Unscreened	Type 2 PVC	100m reel

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Def Stan 61-12 PART 6 Equipment Wire



Defence Standard Def Stan 61-12 Part 6 describes single-core, multi-stranded wires for use in high-intensity wiring within machinery and equipment enclosures. Single wires with robust PVC insulation, these hookup wires are commonly used in military and industrial applications.

There are 3 types of PVC available providing insulation at different voltages in multiple colour options and with choices of number and size of strands. Available in lengths of 100m, 500m, 1000m, and 5000m

These wires also conform to BS4808

Operating temperature:

Type 1 PVC max 750V AC -15°C to +85°C.

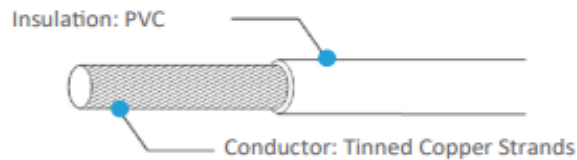
Type 2 PVC max 1000V AC -15°C to +85°C.

Type 3 PVC max 1500V AC -20°C to +85°C.

Standard Colour Options:

Black (0), Brown (1), Red (2), Orange (3), Yellow (4), Green (5), Blue (6), Violet (7), Grey (8), White (9), Pink (P) plus striped colour options

Physical Characteristics



Code	PVC Type	Conductor	Copper OD	Wall mm		Nominal OD	OD mm		Max working voltage
				Min.	Max		Min	Max	
1.8	1	1/0.6	0.60	0.15	0.20	1.00	0.95	1.05	1000
1.4-5	1	7/0.2	0.59	0.15	0.20	1.00	0.95	1.05	1000
1.8	2	1/0.6	0.60	0.25	0.30	1.20	1.10	1.30	1000
1.4-5	2	7/0.2	0.59	0.25	0.30	1.20	1.10	1.30	1000
3.0-5	2	16/0.2	0.88	0.25	0.30	1.55	1.45	1.65	1000
4.5-5	2	24/0.2	1.08	0.40	0.45	2.13	2.05	2.20	1000
3.0-5	3	16/0.2	0.88	0.50	0.60	2.13	2.00	2.25	1000
4.5-5	3	24/0.2	1.08	0.50	0.60	2.33	2.20	2.45	1000
6.0-5	3	32/0.2	1.25	0.50	0.60	2.53	2.40	2.65	1500

Ordering: Example **DPS6-2-3.0-S-2-100M**

PREFIX DPS6	PVC TYPE	CODE	COLOUR	LENGTH
DPS6	-2	-3.0-S	-2	-100M
Translates to:	Type 2 PVC	16/0.2 Conductors	Red	100m reel



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