

EQUIPMENT WIRE

<u>SPECIFICATION</u>	<u>CONDUCTOR</u>	<u>NUMBER & SIZE OF WIRES MM</u>	<u>MAXIMUM WORKING VOLTAGE RMS</u>	<u>NOMINAL CURRENT RATING</u>	<u>INSULATION</u>	<u>NOMINAL OVERALL DIAMETER MM</u>	<u>INSULATION THICKNESS MM</u>	<u>TEMPERATURE</u>	<u>RESISTANCE</u>
1/0.6MM (0.28MM ²) type 2	TINNED ANNEALED COPPER WIRE	SINGLE STRAND 0.6MM (DIA)	1KV r.m.s.		PVC	1.2MM	0.3MM	1.8 AMP AT 70°C AMBIENT 3.0 AMP AT 25°C AMBIENT	20°C 64Ω / KM
10/0.1MM MINIATURE (0.078MM ²)	TINNED ANNEALED COPPER WIRE	10 X 0.1MM	1KV r.m.s.	0.5 AMPS	PVC	1.05MM	0.3MM	3.0 AMP AT 70°C AMBIENT 2.0 AMPS AT 25°C AMBIENT	
7/0.2MM (0.22MM ²) type 1	TINNED ANNEALED COPPER WIRE	7 X 0.2MM	750V r.m.s.	1.4 AMPS	PVC	1.0MM	0.2MM	1.4 AMPS AT 70°C AMBIENT 2.0 AMPS AT 25°C AMBIENT	20°C 88Ω / KM
7/0.2MM ** 0.22MM ²) type 2	TINNED ANNEALED COPPER WIRE	7 X 0.2MM	1KV r.m.s.	1.4 AMPS	PVC	1.20MM	0.3MM	1.4 AMPS AT 70°C AMBIENT 2.0 AMPS AT 25°C AMBIENT	20°C 88Ω / KM
16/0.2mm (0.5mm ²) type 2	TINNED ANNEALED COPPER WIRE	16 X 0.2MM	1KV r.m.s.	3 AMPS	PVC	1.55MM	0.3MM	3.0 AMPS AT 70°C AMBIENT 4.0 AMPS AT 25°C AMBIENT	20°C 38 Ω / KM
16/0.2mm (0.5mm ²) type 3	TINNED ANNEALED COPPER WIRE	16 X 0.2MM	1.5KV r.m.s.	3 AMPS	PVC	2.13MM	0.6MM	3.0 AMPS AT 70°C AMBIENT 4.0 AMPS AT 25°C AMBIENT	20°C 38 Ω / KM
24/0.2MM (0.75MM ²) type 2	TINNED ANNEALED COPPER WIRE	24 x 0.2mm	1KV r.m.s.	4.5 AMPS	PVC	2.05MM	0.45MM	4.5 AMPS AT 70°C AMBIENT 6.0 AMPS AT 25°C AMBIENT	20°C 25.5 Ω / KM
24/0.2MM (0.75MM ²) type 3	TINNED ANNEALED COPPER WIRE	24 x 0.2mm	1.5KV r.m.s.	4.5 AMPS	PVC	2.34MM	0.6MM	4.5 AMPS AT 70°C AMBIENT 6.0 AMPS AT 25°C AMBIENT	20°C 25.5 Ω / KM
32/0.2MM (1.0 MM ²) type 3	TINNED ANNEALED COPPER WIRE	32 X 0.2MM	1.5KV r.m.s.	6 AMPS	PVC	2.52MM	0.6MM	6.0 AMPS AT 70°C AMBIENT 10.0 AMPS AT 25°C AMBIENT	20°C 19.1Ω / KM
63.0.2MM (2.0MM ²) type 3	TINNED ANNEALED COPPER WIRE	63 X 0.2MM	1.5KV r.m.s.	11 AMPS	PVC	3.00MM	0.6MM	11 AMPS AT 70°C AMBIENT 18.0 AMPS AT 25°C AMBIENT	20°C 9.7 Ω / KM

Insulated wires to Defence Standard 61-21 part 6 types 1, 2 and 3 also comply for corresponding standings and types, with the requirements of BS4808 classes 1, 2 and 3. Because the requirements set by the Ministry of Defence in Defence Standard 61-12 part 6 are more rigorous than the requirements in BS4808, the converse is not necessarily true.

The maximum recommended operating temperature for these wires is 85°C. Defence Standard current ratings quoted below will give a 15°C temperature rise at an ambient temperature of 70°C for single wires freely ventilated. Commercial ratings are suggested for use at 25°C ambient.

Equipment wire with 10/0.1mm conductors is a stranding size not specifically listed in DEF.STAN.61-12 part 6. Because of its suitability for in conformance with specifications for similar size wires included in the specification.

** Temperature rating 7/0.2 Type 2 Wire

The temperature range of the above product is -15 to 85 deg C, the upper temperature is the temperature at the conductor due to a combination of ambient and temperature rise due to current flow. The lower temperature is for the product in static mode.