

Defence Standard 61-12 Part 6 Equipment Wire - 0.22mm² to 1mm²



Description

Def Stan 61-12 Part 6 equipment wires are single-core, unsheathed hookup wires built with flexible stranded tinned annealed copper conductors and a robust layer of Polyvinyl Chloride (PVC) insulation. The range is specified across three configurations: Type 1 with a voltage rating of 750V AC, Type 2 rated for 1000V AC, and Type 3 rated for 1500V AC. Operating temperatures range from -15°C to +85°C for Types 1 and 2, and from -20°C to +85°C for Type 3, with a minimum bending radius of 7.5 x overall diameter for fixed installations. This cable range complies strictly with Ministry of Defence Standard DEF 61-12 Part 6, BS 4808, and standard specifications for flame propagation.

Initially manufactured for military use, these equipment wires are now more commonly utilized for industrial applications requiring high-intensity wiring inside electronic machinery, instruments, and equipment enclosures. They are standard for complex configurations inside aircraft, computers, data processors, control panels etc. Tinned copper conductors ensure the wiring can withstand contamination from fuels and mineral-based fluids, making them well suited for dense internal circuitry and instrumentation racks.

Def Stan 61-12 Part 6 wires are suitable for fixed internal installations where they are fully enclosed inside a chassis, machine casing, control cubicle, or dedicated internal trunking.

Key Features



Voltage Rating

Type 1: 750v
 Type 2: 1kV
 Type 3: 1.5kV



Temperature Limits

Type 1/2: -15°C to +85°C
 Type 3: -20°C to +85°C

Core Colours



Standards

- BS 4808

Construction

- **Conductor:** Class 2 stranded copper conductor
- **Insulation:** Type 1/2: hard grade Polyvinyl Chloride (PVC)
 Type 3: general purpose Polyvinyl Chloride (PVC)

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance



Defence Standard 61-12 Part 6 Equipment Wire - 0.22mm² to 1mm² - Dimensions

Reference	Insulation Thickness (mm)	Overall Diameter(Lower)	Overall Diameter(Upper)	Weight(Kg/Km)
DEFSTANP6T1X/22	0.20	0.95	1.05	2.65
DEFSTANP6T1X/28	0.20	0.95	1.05	3.55
DEFSTANP6T2X/22	0.30	1.10	1.30	3.15
DEFSTANP6T2X/28	0.30	1.10	1.30	3.70
DEFSTANP6T2X/41	0.30	1.60	1.60	6.00
DEFSTANP6T2X/5	0.30	1.65	1.70	6.20
DEFSTANP6T2X/75	0.45	1.95	2.20	9.90
DEFSTANP6T3X/5	0.60	2.00	2.30	9.00
DEFSTANP6T3X/75	0.60	2.20	2.50	11.50
DEFSTANP6T3X1	0.60	2.40	2.70	14.50

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.