

- Highly flame retarded/non melting
- Limited fire hazard
- 600V rated
- Excellent fluid resistance
- Flexible
- Double insulation (for Class 2 equipment)
- Tough, thin wall
- Small size, light weight

FLT

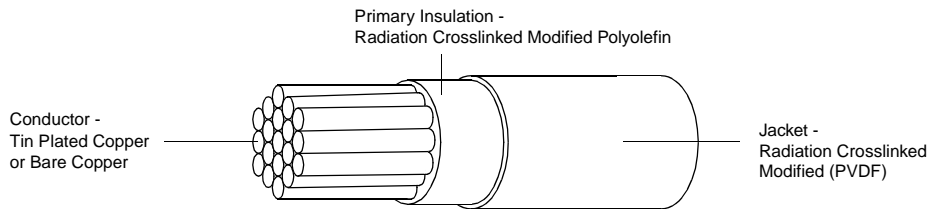
Flexible, double insulated high performance wire for a wide range of industrial applications

FLT dual-wall wire combines flexibility with tough thin wall insulation to enable bundles to be routed through areas in which conventional wires cannot be used.

Typical applications include control panels, instruments, lighting equipment, electrical appliances, electric motors,

electric pumps, robotics and the automotive industries.

Ordering information



Finished Wire

Nominal CSA mm ²	Conductor Stranding No/Dia mm	Conductor Diameter (mm)		Maximum Resistance @ 20°C ohms/km	Diameter (mm)		Nominal weight kg/km	Ordering description
		min	max		min	max		
0.25	19/0.127	0.55	0.63	83.6	0.91	1.04	2.96	FLT011X-0.25-Y
0.35	19/0.15	0.70	0.80	56.1	1.06	1.21	4.14	FLT011X-0.35-Y
0.50	19/0.19	0.82	0.90	40.1	1.18	1.31	6.63	FLT011X-0.50-Y
0.75	19/0.23	1.05	1.15	24.7	1.41	1.56	8.20	FLT011X-0.75-Y
1.00	19/0.25	1.17	1.26	20.0	1.55	1.70	10.86	FLT011X-1.00-Y
1.50	19/0.32	1.35	1.60	13.7	1.73	2.06	16.47	FLT011X-1.50-Y
2.00	19/0.36	1.66	1.85	9.9	2.12	2.38	20.32	FLT011X-2.00-Y
2.50	19/0.41	1.85	2.05	8.2	2.31	2.61	26.56	FLT011X-2.50-Y

Note: X = Conductor Type 1 = Tin Plated Copper 9 = Bare Copper
Y = Colour (see colour code below)

Standard colours

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

FLT

Approvals

UL Styles 1385

CSA Class 5851

IEC 332-1

Physical characteristics

Small Size

FLT equipment wire 600 volt rated has a 0.20 mm nominal wall thickness compared to 0.25mm and 0.38mm for equivalent PTFE and PVC wires in MIL-W-16878, MIL-W-22759 or BS3G210.

Light weight

Due to the thin wall and low density of the insulation materials considerable weight savings are made over similarly rated PTFE wires.

For Example: FLT0111 - 0.35 equipment wire 4.38 grams/metre max
22 AWG PTFE equipment wire MIL-W-22759 5.54 grams/metre max

General Handling

The flexibility of FLT and the ease with which it takes a 'set' makes it one of the easiest of the 'high performance' wires to install. Stripping is done with conventional die blade strippers. For details of appropriate tools see separate wire handling guide. The tin-plated copper conductor usually specified is easily soldered or crimped.

Lengths

FLT is available in long continuous lengths and can be supplied for use on automatic cut and strip preparation machines.

Typical properties

*Temperature rated (Tin plated conductor)	-65° C to + 150° C
*Voltage rating	600V
Tensile strength + elongation of insulation	30 N/mm ² , 230%
Notch propagation BS 3G230 0.05 mm notch	Pass
Meets BS4066/IEC332-1 Flammability test	Pass
Solder iron resistance (370° C, 1 minute)	Pass
Shrinkage @ + 150° C	<1%
Low temperature bend	-65° C
*Rated at 125° C	In UL style sheet 1385
*No Voltage rating specified	In UL style sheet 1385

Environmental performance

Temperature rating

FLT wire is rated for continuous operation from -65° C to + 150° C and for short periods at much higher temperatures.

Mechanical performance

Radiation crosslinking of the FLT insulation significantly improves the following mechanical characteristics; scrape (sharp edges), cut-through resistance and creep resistance.

Solder iron/Overload resistance

Radiation crosslinking ensures that the insulation does not melt at high temperature. As a result FLT wire is resistant to hot solder irons and current overloads which would melt most thermoplastic insulations.

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