

PVC Equipment Wires

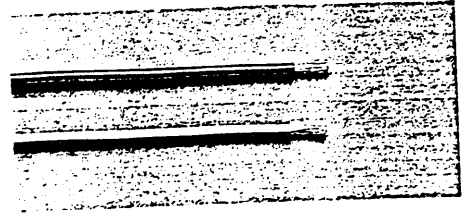
709-750 → 864

multicomp

For PTFE Equipment Wires see page 23

manufacture a wide range of PVC insulated equipment wires for internal wiring applications. The upper temperature limits given below refer to the maximum continuous conductor temperatures including any temperature rise due to load. It is not possible to give definite minimum operating temperature

limits under static conditions owing to the possible vibration of the wire during use. Therefore the lower values quoted are the maximum temperatures for equipment wires which may be subjected to slight flexing during their normal life.



Ref.	Conductor		Radial Thickness	Mean Overall Dimensions		Current Rating Amps at 20°C*	Approx. net weight per 1000m kg
	Nominal Area	No. & Dia. of wires	Insulation	Max	Min		
	mm ²	No./mm	mm	mm	mm		

PVC EQUIPMENT WIRES to Def. Stan. 61-12 Part 6 and BS 4808 Part 2

A range of Type 2 and Type 3 insulated equipment wires.

Uses: All types of internal wiring applications.
Conductor: Tinned annealed high conductivity copper wire generally to BS 6360.
Insulation: Type 2 wires - PVC hard grade insulation type 2 to BS 6746.
 Type 3 wires - PVC general purpose insulation compound type T11 to BS 6746.
Insulation colours: Black, white, blue, brown, green, grey, orange, pink, red, violet, yellow. Bi- and tri-colours to order.
Packing: 100m and 500m reels.

Type 2							
PVC	0.22	7/0.2	0.30	1.30	1.10	1.4	3.5
Hard	0.50	16/0.2	0.30	1.65	1.45	3.0	7.0
Grade	0.75	24/0.2	0.45	2.15	1.95	4.5	9.5
Type 3							
PVC	0.50	16/0.2	0.6	2.25	2.00	3.0	10.0
General	0.75	24/0.2	0.6	2.45	2.20	4.5	12.0
Purpose	1.00	32/0.2	0.6	2.65	2.40	6.0	18.5
Type T11	2.00	63/0.2	0.6	3.15	2.90	11.0	24.0

*Current carrying capacities will depend on the installation. The figures quoted are for single ventilated wires.

Ref.	Conductor		Radial Thickness	Mean Overall Dimensions		Current Rating Amps at 20°C*	Approx. net weight per 1000m kg
	Nominal Area	No. & Dia. of wires	Insulation	Max	Min		
	mm ²	No./mm	mm	mm	mm		

70° PVC SWITCHGEAR AND CONTROL GEAR WIRE to BS 6231:1981

Types BU, BR & BK

A range of single core insulated equipment wires for maximum operating temperatures up to 70° C.

Uses: For switchgear, control gear and motor starters.
Conductor: Tinned annealed high conductivity copper wire generally to BS 6360.
Insulation: PVC general purpose insulation compound type T11 to BS 6746.
Insulation colours: Available to order.
Packing: 0.5mm - 2.5mm 500m reels
 4mm - 10mm 100m reels
 16mm - 50mm 50m reels

BU	1.0	1/1.13	0.8	3.2			17
	1.5	1/1.38	0.8	3.5			22
	2.5	1/1.78	0.8	3.9			33
BR	1.0	7/0.4	0.8	3.3			17
	1.5	7/0.5	0.8	3.6			22
	2.5	7/0.67	0.8	4.2			34
	4.0	7/0.85	0.8	4.8			50
	6.0	7/1.04	0.8	5.4			70
BK	0.5	16/0.2	0.8	3.0			12
	0.75	24/0.2	0.8	3.2			15
	1.0	32/0.2	0.8	3.4			17
	1.5	30/0.25	0.8	3.7			22
	2.5	50/0.25	0.8	4.2			33
	4.0	56/0.3	0.8	4.8			50
	6.0	84/0.3	0.8	6.3			73
	10.0	80/0.4	1.0	7.6			119
	16.0	126/0.4	1.0	8.8			184
	25.0	196/0.4	1.2	11.0			282
	35.0	276/0.4	1.2	12.5			389
	50.0	396/0.4	1.4	14.5			550

Also available are types CU, CR and CK. These have a temperature rated at 85° C and have conductors and diameters identical to types BU, BR and BK.

Ref.	Conductor		Radial Thickness	Mean Overall Dimensions		Current Rating Amps at 20°C*	Approx. net weight per 1000m kg
	Nominal Area mm ²	No. & Dia. of wires No./mm	Insulation mm	Max mm	Min mm		

70°C PVC EQUIPMENT WIRES

PVC General Purpose Type T11

For maximum generating temperatures up to 70°C.

Uses: General purpose equipment wires.

Conductor: Tinned annealed high conductivity copper wires generally to BS 6360.

Insulation: PVC general purpose insulation compound type T11 to BS 6746.

Insulation colours: Black, white, blue, brown, green, grey, orange, pink, red, violet, yellow. Bi- and tri-colours to order.

Packing: 500m reels.

MCW8	0.38	1/0.7	0.45	1.70	1.50	2.5	5.9
MCW11	0.63	1/0.9	0.45	1.90	1.70	4.0	8.5
MCF0	0.08	7/0.12	0.30	1.10	0.90	0.5	1.7
MCF1	0.16	14/0.12	0.30	1.20	1.00	1.0	2.7
MCF4	0.22	7/0.20	0.45	1.60	1.40	1.5	4.2
MCF5	0.40	13/0.20	0.30	1.50	1.30	2.5	5.3
MCF6	0.40	13/0.20	0.45	1.80	1.60	2.5	6.5
MCF9	0.65	21/0.20	0.45	2.10	1.90	4.0	9.4
MCF10	0.65	21/0.20	0.75	2.75	2.45	4.0	12.6

HEAT RESISTING PVC EQUIPMENT WIRES

VX Grade PVC

A range of equipment wires with a unique insulation specially developed by for operating temperatures up to 105°C.† This VX grade of compounded PVC offers excellent flexing characteristics at high temperatures. It is resistant to the effects of most insulating varnishes, solvents, lubricating oils, greases, waxes and hydraulic or shock absorber type fluid. It also remains flexible down to -20°C. For further information contact our technical department.

Uses: Ideal for tail wires on transformers, motors or other components requiring encapsulation or wherever high temperatures and insulating varnishes or oil based or hydraulic fluids exist.

Conductor: Tinned annealed high conductivity copper wire generally to BS 6360.

Insulation: VX grade of PVC compound to BS 6746. Type 4.

Insulation colours:
VX050 to VX650: Black, white, blue, brown, green, grey, orange, pink, red, violet, yellow + green/yellow.

VX750 to VX850: Black, red, green/yellow.

Packing:

VX050-VX355 500m reels

VX450-VX500 250m reels

VX550-VX850 100m reels

VX050	0.08	7/0.12	0.30	1.10	0.90	0.5	1.7
VX150	0.16	14/0.12	0.30	1.20	1.00	1.0	2.7
VX250	0.22	7/0.2	0.45	1.60	1.40	1.4	4.2
VX350	0.50	16/0.2	0.45	1.90	1.70	3.0	7.5
VX355	0.50	16/0.2	0.50	2.30	2.10	3.0	9.5
VX450	0.75	24/0.2	0.75	2.75	2.45	6.0	13.5
VX500	1.00	32/0.2	0.75	3.05	2.75	10.00	16.5
VX550	1.25	40/0.2	0.75	3.15	2.85	13.0	19.6
VX650	2.00	63/0.2	0.75	3.45	3.15	18.0	27.1
VX750	3.00	95/0.2	1.00	4.90	4.50	24.0	42.8
VX850	5.00	159/0.2	1.00	5.70	5.30	31.0	64.2

*Current carrying capacities will depend on the installation. The figures quoted are for single ventilated wires.

†These equipment wires are regarded as suitable for continuous operation at conductor temperatures not exceeding 65°C. In installations where it is possible to guard against thermoplastic flow and where low values of insulation resistance can be tolerated these compounds are suitable for operation at conductor temperatures up to 105° for periods not exceeding five years.