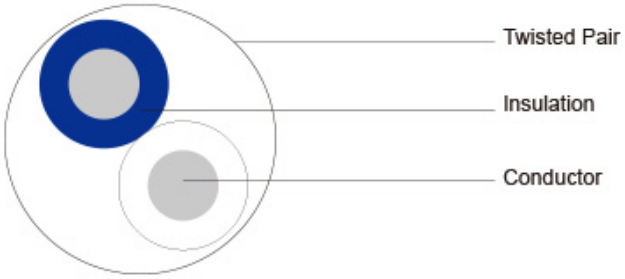
PVC Insulated Jumper Wires to CW 1109, CW 1257 & CW 1423



Application	The jumper wires are used for interconnection between terminal blocks at main distribution frames (MDF), cross connection cabinets (CCP) and distribution frames or boxes.
Standards	CW 1109 (PVC T2) CW 1257 (Cross linked PVC) CW 1423 (PVC BT M154)
Construction	
Conductors:	Solid annealed tinned copper 0.32/0.4/0.5/0.6/0.8/1.0mm as per class 1 of BS 6360/IEC 60228
Insulation:	PVC Type 2 to BS 6746 (CW 1109); Cross-linked PVC (CW 1257) & PVC (CW 1423)
Twisted Pairs:	For CW 1109 & CW 1257, two insulated conductors are twisted into pairs with varying lays to minimize crosstalk. For CW 1423, one, two, three, four or five insulated conductors are twisted together with a right hand lay

Electrical Properties

CW 1109

Nominal Conductor Diameter	mm	0.32	0.4	0.5	0.6	0.8	1.0	7/0.2
Conductor Size	mm2	0.08	0.126	0.196	0.283	0.5	0.785	0.22
Maximum Conductor Resistance @20°C	Ω/km	234	148	95	65.9	36.7	23.3	89.9
Minimum Insulation Resistance @500V DC	MΩ.km	50	50	50	50	50	50	50
Minimum Insulation Thickness	mm	0.12	0.15	0.15	0.15	0.25	0.25	0.15
Maximum Insulated Conductor Diameter	mm	0.7	0.85	0.95	1.05	1.5	1.7	1.05

CW 1257

Nominal Conductor Diameter	mm	0.4	0.5	0.6
Conductor Size	mm2	0.126	0.196	0.283
Maximum Conductor Resistance @20°C	Ω/km	153	98	68.9
Minimum Insulation Resistance @500V DC	MΩ.km	50	50	50

Minimum Insulation Thickness	mm	0.25	0.25	0.25
Maximum Insulated Conductor Diameter	mm	1.0	1.10	1.20

CW 1423

Nominal Conductor Diameter	mm	0.5
Conductor Size	mm2	0.196
Maximum Conductor Resistance @20°C	Ω/km	98
Minimum Insulation Resistance @500V DC	MΩ.km	50
Minimum Insulation Thickness	mm	0.25
Maximum Insulated Conductor Diameter	mm	1.10

Mechanical and Thermal Properties

Temperature range during operation (fixed state): -30°C – +70°C

Temperature range during installation (mobile state): -20°C – +50°C

Minimum bending radius: 7.5 x Overall Diameter

Color Code

CW 1109 - as per IEC 60189-3

CW 1257 & CW 1423:

BLUE	ORANGE	GREEN
BROWN	GREY	WHITE
RED	BLACK	PINK
VIOLET	YELLOW	TURQUOISE

Dimensions And Weight

CW 1109

Cable Code	Number of Wires	Minimum Insulation Thickness mm	Maximum Overall Diameter mm	Nominal Weight kg/km
0.32mm Conductor, 0.7mm Insulated Wire				
TP1109-Y-1W032	1	0.12	0.7	1.5
TP1109-Y-2W032	2	0.12	1.3	3.0
0.4mm Conductor, 0.85mm Insulated Wire				
TP1109-Y-1W04	1	0.15	0.85	1.8
TP1109-Y-2W04	2	0.15	1.45	3.6
0.5mm Conductor, 0.95mm Insulated Wire				
TP1109-Y-1W05	1	0.15	0.95	2.2
TP1109-Y-2W05	2	0.15	1.65	4.8
TP1109-Y-3W05	3	0.15	2.35	6.6

0.6mm Conductor, 1.05mm Insulated Wire				
TP1109-Y-1W06	1	0.15	1.05	2.8
TP1109-Y-2W06	2	0.15	1.75	5.6
0.8mm Conductor, 1.5mm Insulated Wire				
TP1109-Y-1W08	1	0.25	1.50	5.5
TP1109-Y-2W08	2	0.25	2.50	11.0
1.0mm Conductor, 1.7mm Insulated Wire				
TP1109-Y-1W10	1	0.25	1.70	6.5
TP1109-Y-2W10	2	0.25	2.60	13.0
7/0.2mm Conductor, 1.05mm Insulated Wire				
TP1109-Y-1W7/02	1	0.15	1.05	2.5
TP1109-Y-2W7/02	2	0.15	2.35	5.0

CW 1257

Cable Code	Number of Wires	Minimum Insulation Thickness mm	Maximum Overall Diameter mm	Nominal Weight kg/km
0.4mm Conductor, 1.0mm Insulated Wire				
TP1257-Y-1W04	1	0.25	1.0	2.0
TP1257-Y-2W04	2	0.25	1.8	4.0
0.5mm Conductor, 1.1mm Insulated Wire				
TP1257-Y-1W05	1	0.25	1.1	2.5
TP1257-Y-2W05	2	0.25	2.0	5.0
0.6mm Conductor, 1.2mm Insulated Wire				
TP1257-Y-1W06	1	0.25	1.2	2.9
TP1257-Y-2W06	2	0.25	2.2	5.8

CW 1423

Cable Code	Number of Wires	Minimum Insulation Thickness mm	Maximum Overall Diameter mm	Nominal Weight kg/km
0.5mm Conductor, 1.1mm Insulated Wire				
TP1423-Y-1W05	1	0.25	1.98	2.5
TP1423-Y-2W05	2	0.25	2.5	5.0
TP1423-Y-3W05	3	0.25	3.0	7.5
TP1423-Y-4W05	4	0.25	3.8	10.0
TP1423-Y-5W05	5	0.25	4.6	12.5