

Drop Wires No. 12, 10B, CAD55M & 10 to CW 1406, CW 1411, CW 1417 & CW 1378

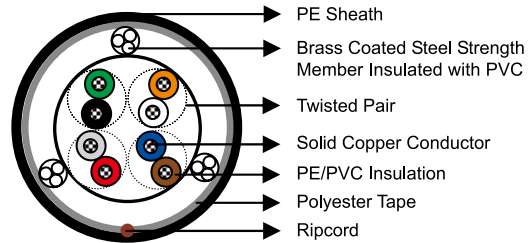
APPLICATION

The drop wires are designed for use in local area network to link between pole and building or two buildings. The high tensile steel strength member wires are incorporated inside the cable to provide support. The cables can be used for crossing high voltage cables up to 11kV.



STANDARDS

- CW 1406 (Drop Wires No.12 1 pair)
- CW 1411 (Drop Wires No.10B 2 pairs)
- CW 1417 (Drop Wires CAD55M 4 pairs)
- CW 1378 (Drop Wires No.10 2 pairs)



CONSTRUCTION

- **Conductors:** Solid annealed bare copper of 0.5/0.9mm as per class 1 of BS 6360/IEC 60228.
- **Insulation:** Solid low or medium density Polyethylene (CW 1406, CW 1411 & CW 1417) or Polyvinyl Chloride (CW 1378) to BS 7878.
- **Core Wrapping:** 23 micron Polyester Tape.
- **Strength Member:**
 - 1 Pair: 1 element of 3 x 0.41mm brass coated steel strength member; PVC insulated to 1.4mm.
 - 2 & 4 Pairs: 3 elements of 3 x 0.25mm brass coated steel strength member; PVC insulated to 1.0mm.
- **Sheath:** Black medium density polyethylene as per BS 7878.
- **Ripcord:** Nylon

ELECTRICAL PROPERTIES

Nominal Conductor Diameter	mm	0.9	0.5	0.5	0.5
BT Drop Wire Reference		No.12	No.10	No.10B	CAD55M
Standard		CW 1406	CW 1378	CW 1411	CW 1417
Number of Pairs		1	2	2	4
Maximum Conductor Resistance @20°C	Ω/km	28	95	95	95
Minimum Insulation Resistance @500V DC	MΩ.km	10000	100	10000	10000
Breaking Load	N	1350-1550	1350-1550	1350-1550	1350-1550
Maximum Mutual Capacitance @0.8KHz-3.0KHz	nF/km	-	100	56	56
Maximum Capacitance Unbalance pair-to-pair	pF/500m	-	500	275	300



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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

COLOUR CODE

CW 1406 Pair 1: Orange/White

CW 1411 Pair 1: Orange/White

CW 1417 Pair 1: Orange/White

Pair 3: Blue/Brown

CW 1378 Pair 1: Orange/White

Pair 2: Green/Black

Pair 2: Red/Grey

Pair 4: Green/Black

Pair 2: Green/Black

DIMENSIONS AND WEIGHT

Cable Code	Number of Pairs	Insulation Material	Nominal Insulation Thickness mm	Minimum Sheath Thickness mm	Min/Max Overall Diameter mm	Nominal Weight kg/km
0.5mm Conductor						
TP1411-2Y2Y-2P05-DW10B	2	PE	0.2	0.4	5.1/5.6	32
TP1417-2Y2Y-4P05-DW55M	4	PE	0.2	0.5	5.3/5.5	35
TP1378-Y2Y-2P05-DW10	2	PVC	0.2	0.4	5.3/5.5	33
0.9mm Conductor						
TP1406-2Y2Y-1P09-DW12	1	PE	0.3	0.5	5.0/5.5	32

