

# TELEPHONE CABLE FOR INSTALLATION WITHIN BUILDINGS (CW-1293 issue 4)



**Application** : This cable is used for inside installation for the inter-connection of the transmission, telephone, telegraph and electronic equipment for data processing.

CONSTRUCTION	
<b>Conductor</b>	Solid annealed Plain copper wire in 0.4,0.5,0.6 & 0.9 mm dia.
<b>Insulation</b>	PVC compound Type TI54 to BS:7878. Colour code shall be as per Table-2 of CW-1293 issue 4 (As per IEC 189-2&3). The thickness and the insulation diameter shall be as per Table-1 of CW-1308 F.
<b>Assembly</b>	Two/Three/Four cores twisted into pair/triad/quad and pairs/triads/quads are stranded in layers to form the cable core or into units of 10 or 20 pairs and units and are cabled together. The cable make-up shall be as per Table 3A,3B,3C & 3D(for laid up cable cores) & Table 4 (for Unit type of cable cores) of CW-1293 issue 4.The assembly shall be covered with a non-hygroscopic tape.
<b>Sheath</b>	Sheath material shall be TypeTM51 of BS: 7878 and the thickness of the sheath shall be as per Table3A,3B,3C&3D of CW-1293 issue 4. The colour of the sheath shall be Cream, Grey, White, Black or Light Grey as per customer requirement. A Nylon rip cord is provided under the sheath for easy stripping. The cable overall diameter shall be as per the Table 1.
<b>Sheath Marking</b>	Name of manufacturer, Year of manufacturing, Conductor Sizes x No of Pairs shall be marked on the outer side of the sheath or any other marking on request.

TECHNICAL DATA				
Conductor Dia (mm)	0.4mm	0.5mm	0.6mm	0.9mm
Max. Cond. Resistance at 20°C (Ω/Km)	153.0	97.8	67.9	29.6
Min. Insulation Resistance per Km.	As per Table 7 of CW-1308B			
Capacitance Unbalance between pair to pair at 1 KHz (pF/500 Mtr)	200 (up to 100P) 300 for others	500	300	300
Stripping force	4.4	5.9	7.3	9.8

**NOTE:-**

- ☒ Tinned Copper conductor can be supplied on demand.
- ☒ The given picture of the product may differ to its actual in construction/colour.

# TELEPHONE CABLE FOR INSTALLATION WITHIN BUILDINGS (CW-1308 F)



**Application** : This cable is used for inside installation for the inter-connection of the transmission, telephone, telegraph and electronic equipment for data processing.

<u>CONSTRUCTION</u>	
<b>Conductor</b>	Solid annealed Plain copper wire
<b>Insulation</b>	PVC compound Type TI54 to BS:7878. Colour code shall be as per Table-2 of CW-1308 F. The thickness and the insulation diameter shall be as per Table-1 of CW-1308 F.
<b>Assembly</b>	Cores twisted into pairs and pairs are stranded in layers to form the cable core or into units of 10 or 20 pairs and units and are cabled together. The cable make-up shall be as per Table 3A & 3C of CW-1308 F. The assembly shall be covered with a non-hygroscopic tape.
<b>Screen</b> (If required)	An Aluminium Polyester tape of 0.024 mm thickness shall be applied longitudinally or helically with an overlap of Min. 30% and a solid tinned copper drain wire (0.5 mm) in continuous contact with the Aluminium part of the screen.
<b>Sheath</b>	Sheath material shall be Type TI51 of BS:7878 and the thickness of the sheath shall be as per Table 3A & 3C of CW-1308 F. The colour of the sheath shall be Cream, Grey, White, Black or Light Grey as per customer requirement. A Nylon rip cord is provided under the sheath for easy stripping.
<b>Sheath Marking</b>	Name of manufacturer, Year of manufacturing, Cond. Size x No of Pairs shall be marked on the outer side of the sheath or any other marking on request

<u>TECHNICAL DATA</u>			
Conductor Dia (mm)	0.4mm	0.5mm	1.38mm
Max. Cond. Resistance at 20°C (Ω/Km)	153.0	97.8	12.4
Min. Insulation Resistance per Km.	As per Table 7 of CW-1308B		
Capacitance Unbalance between pair to pair at 1 KHz (pF/500 Mtr)	200(Unit type) 300(Layer type)	500	300

**NOTE:-**

- ☒ Tinned Copper conductor can be supplied on demand.
- ☒ For those cables with the BT designation suffix E, the 1.38 mm diameter earth conductor per cable shall be included anywhere in the cable core except within the sub-unit or unit.
- ☒ The given picture of the product may differ to its actual in construction/colour.

# TELEPHONE CABLE FOR INSTALLATION WITHIN BUILDINGS (IEC 189-2)



**Application** : This cable is used for inside installation for the inter-connection of the transmission, telephone, telegraph and electronic equipment for data processing.

CONSTRUCTION	
<b>Conductor</b>	Solid annealed plain copper wire *
<b>Insulation</b>	PVC compound as per IEC 189-2. Colour code as given in Table 1.
<b>Assembly</b>	Cores twisted into pairs and pairs are stranded into units of 10 or 20 pairs and units are cabled together. The assembly is covered with a non-hygroscopic tape.
<b>Screen</b>	An Aluminium Polyester tape is applied longitudinally or helically with a suitable overlap and a solid tinned copper drain wire (0.4 mm) in continuous contact with the Aluminium part of the screen.
<b>Sheath</b>	Grey coloured PVC as per IEC 189-2. A Nylon rip cord is provided under the sheath for easy stripping.

TECHNICAL DATA				
Specification	IEC 189-2			
Temperature Range				
Stationary	- 30°C to + 70°C			
Flexing	- 5°C to + 50°C			
Conductor Dia (mm)	0.4	0.5	0.6	0.8
Max. Cond. Resistance at 20°C (Ω/Km)	153.0	97.8	67.9	36.8
Test Voltage Kv (DC) / 1 Minute	1.5		2.25	
Mutual Capacitance at 1 KHz (nF/Km)	Ind. Max 120			
Capacitance Unbalance between pair to pair at 1 KHz (pF/500 Mtr)	Ind. Max 400			

\* Tinned Copper conductor can be supplied on demand.

COLOUR CODE			TABLE 1			COLOUR CODE OF UNIT BINDING	
NO. OF PAIRS	A-WIRE	B-WIRE	NO. OF PAIRS	A-WIRE	B-WIRE	UNIT NO.	COLOUR OF BINDING
1	White	Blue	11	Black	Blue	1	Blue
2	White	Orange	12	Black	Orange	2	Orange
3	White	Green	13	Black	Green	3	Green
4	White	Brown	14	Black	Brown	4	Brown
5	White	Grey	15	Black	Grey	5	Grey
6	Red	Blue	16	Yellow	Blue	6	White
7	Red	Orange	17	Yellow	Orange	7	Red
8	Red	Green	18	Yellow	Green	8	Black
9	Red	Brown	19	Yellow	Brown	9	Yellow
10	Red	Grey	20	Yellow	Grey	10	Violet

**NOTE:-**

☒ The given picture of the product may differ to its actual in construction/colour.