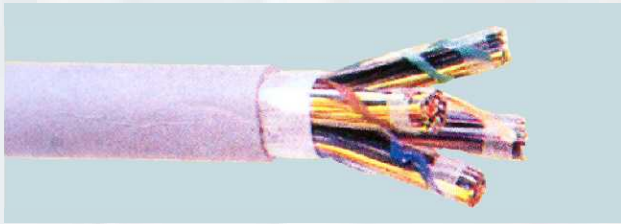




-the nation's live wire-

**POLYETHYLENE INSULATED, PAIRED, PVC-SHEATHED INDOOR CABLE (IPEV)**



**Specification:** NITEL S-3202

**Construction:** plain annealed copper conductors with colour coded polyethylene insulation; two cores twisted into pair, suitable number of pairs twisted together to form cable or to form units that are bound then twisted with other units to form cable; lapped with plastic tape if necessary, then covered with PVC sheath

**Colours of Identification:**

fully colour-coded insulation and binding (see next page)

**Colour of sheath:** grey

**Application:** Indoor telephone wiring

**CURRENT - CARRYING CAPACITIES AND ASSOCIATED VOLTAGE DROPS FOR ARMoured CABLES WITH COPPER CONDUCTORS VVWAZV, BS 6346**

CABLE SIZE mm <sup>2</sup>	METHOD OF INSTALLATION/TYPE OF SUPPLY							
	CLIPPED DIRECT TO NON METALLIC SURFACE, BUNCHED, UNENCLOSED, EMBEDDED DIRECT OR ON PLASTER				INSTALLED IN AN OPEN CABLE TRENCH OR ON VERTICAL SURFACE OF A WALL			
	ONE TWIN CABLE SINGLE PHASE AC or DC		ONE THREE OR FOUR CORE CABLE THREE PHASE		ONE TWIN CABLE SINGLE PHASE AC or DC		ONE THREE OR FOUR CORE CABLE THREE PHASE	
	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre	CURRENT RATING (Ampere)	VOLTAGE DROP per amp/metre
1.5	20A	29 mv	18A	25 mv	A-	-mv	-A	-mv
2.5	29	18	24	16	-	-	-	-
4	37	12	31	9.6	-	-	-	-
6	48	7.4	41	6.3	50	7.3	42	6.3
10	66	4.3	56	3.8	69	4.3	58	3.8
16	86	2.7	73	2.3	90	2.7	77	2.3
25	115	1.8	97	1.6	121	1.8	102	1.6
35	142	1.3	119	1.1	149	1.3	125	1.1
50	168	0.92	147	0.81	180	0.92	155	0.81
70	209	0.65	180	0.57	220	0.65	190	0.57
95	257	0.48	219	0.42	270	0.48	230	0.42

Conductor Operating Temperature: 70°C

Assumed Ambient Temperature: 35°C

Where the ambient temperature exceeds the value stated, the appropriate correction factor must be applied.

See footnote on Page 7 for correction factor for PVC insulated cables.

**TELECOMMUNICATION CABLES (cont'd)**

**POLYETHYLENE INSULATED, PAIRED, PVC-SHEATHED INDOOR CABLES (IPEV) (CONT'D)**

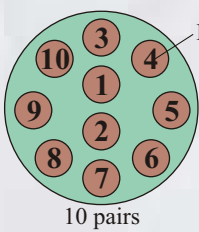
Colours of insulation

Pair No	Colours of insulation		Pair No	Colours of insulation	
	a-wire	b-wire		a-wire	b-wire
1	blue	white	14	brown	black
2	orange	white	15	grey	black
3	green	white	16	blue	yellow
4	brown	white	17	orange	yellow
5	grey	white	18	green	yellow
6	blue	red	19	brown	yellow
7	orange	red	20	grey	yellow
8	green	red	21	blue	voilet
9	brown	red	22	orange	voilet
10	grey	red	23	green	voilet
11	blue	black	24	brown	voilet
12	orange	black	25	grey	voilet
13	green	black			

Colours of binding

Unit No	Tape or thread
1	blue
2	orange
3	green
4	brown
5	grey

Examples of colour scheme



Conductor diameter mm	Total number of pairs	Pairs per unit and number of units	Nominal thickness of sheath mm	overall diameter mm	Approximate mass per km kg	Standard unit length m
0.5	1		0.7	3.5	15	200
	2		0.8	5.5	30	200
	3		0.8	5.5	35	200
	5		0.9	6	50	200
	6		0.9	6	55	200
	10		1.0	8	80	200
	12		1.0	8	90	200
	15		1.2	10	120	200
	20		1.2	11	150	200
	25		1.3	12	180	200
	30	10p unit x 3	1.3	13	210	200
	50 *	10p unit x 5	1.3	15	320	200
	75 *	25p unit x 3	1.4	18	460	200
	100 *	25p unit x 4	1.4	21	590	200
0.65	1		0.7	4	20	
0.5	3 wires		0.7	3.5	20	
0.65	3wires		0.7	4.0	25	

\*Delivered on wooden drums

**Electrical Characteristics:**

conductor resistance at 20°C: 0.5mm: not more than 95 ohm/km

0.65mm: not more than 62 ohm/km

Insulation resistance: not less than 500M<sup>Ω</sup> eg. ohm/km

Dielectric strength: 0.5mm: DC 3000V (5 seconds)

0.65mm: DC 3600V (5 seconds)

