

TELEPHONE CABLE

CABLES PLASTIC TWIN PAIR, TRIPLE AND UNIT TYPE INTERNAL TELEPHONE CABLE

SPECIFICATION	: TMB SPEC. CI 0001
CONDUCTOR	: ANNEALED COPPER WIRE
INSULATION	: GENERAL PURPOSE PVC COMPOUND
SHEATHING	: GREY COLOR HARD GRADE PVC

Conductor Size		Insulation Thickness	Sheath Thickness	Nominal Diameter	Approx. Weight	Standard Length	Resistance at 20°C		Insulation Elongation (min)	Mutual Unbalance Pr-Pr	Capacitance Unbalance Pr-Pr	Insulation Resistance
Size	Pairs						Max. Average	Max. 90% of Cases				
mm	No.	mm	mm	mm	kg/km	m	Ω	Ω	%	nF/km	pF/500m	MW.km
0.5	1	0.25	0.75	3.6	15	250	89.55	91.4	15	90	275	300
0.5	3W	0.25	0.75	3.9	19	250						
0.5	2	0.25	0.75	5	26	250						
0.5	4	0.25	0.75	5.8	40	250						
0.5	6	0.25	0.75	6.9	56	250						
0.5	10	0.25	0.75	8	82	250						
0.5	20	0.25	1.00	10.2	148	500						
0.5	30	0.25	1.00	13	222	500						
0.5	50	0.25	1.50	16.2	362	500						
0.5	100	0.25	2.00	23.5	705	500						
0.5	200	0.25	2.20	30.97	1951	500						
0.63	1	0.25	0.75	3.9	19	250	56.42	57.72	20	90	275	300
0.63	3W	0.25	0.75	4.1	23	250						
0.63	2	0.25	0.75	5.7	31	250						
0.63	4	0.25	0.75	6.3	51	250						
0.63	6	0.25	0.75	7.4	73	250						
0.63	10	0.25	0.75	8.6	100	250						
0.63	20	0.25	1.00	11.2	200	500						
0.63	30	0.25	1.00	13.8	300	500						
0.63	50	0.25	1.50	17.5	493	500						
0.63	100	0.25	2.00	25.8	985	500						
0.63	200	0.25	2.20	36.39	1967	500						

*With Screen also available.

*For 1 Pair, 3 Wires, 2 Pair - CCA conductor also available.

TELEPHONE CABLE

CABLES PLASTIC TWIN PAIR, TRIPLE AND UNIT TYPE INTERNAL TELEPHONE CABLE

SPECIFICATION	: TMB SPEC. CI 0001
CONDUCTOR	: ANNEALED COPPER WIRE
INSULATION	: GENERAL PURPOSE PVC COMPOUND
SHEATHING	: GREY COLOR HARD GRADE PVC

INSULATION COLOR OF CONDUCTORS				
Pair No.	A-Wire	B-Wire	Notes	
1	White	Blue	First Pairs Units	10 Pairs Unit
2	White	Orange	-	-
3	White	Green	-	-
4	White	Brown	-	-
5	White	Grey	-	-
6	Red	Blue	Second 5 Pairs Unit	-
7	Red	Orange	-	-
8	Red	Green	-	-
9	Red	Brown	-	-
10	Red	Grey	-	-
1 Pair Only	White	Orange	-	-

TELEPHONE CABLE

POLYETHYLENE INSULATED, 25-PAIRS UNIT TWIN,
MOISTURE BARRIER SHEATHED TELEPHONE CABLE (PEUT FS)

SPECIFICATION : TMB LINES CL 0522
CONDUCTOR : PLAIN ANNEALED COPPER WIRE
INSULATION : CELLULAR POLYETHYLENE
SHEATHING : SOLID POLYETHYLENE

Conductor : Annealed Copper Wire
Insulation : The Insulation is a dual insulation with an inner core of cellular polyethylene and outer skin of solid polyethylene
Twinning : Two insulated conductors are twisted together to form a pair
Stranding Unit : 25 pairs
Laid-Up : Units are laid up into a compact and symmetrical cable core
Core Wrapping : The cable core is wrapped with a layer of mylar tape
Moisture Barrier Sheath : An aluminium tape with polymer coating is applied over the cable core and then sheathed with black PE

DIMENSIONAL AND ELECTRICAL CHARACTERISTIC														
Conductor		PE	Cable	Approx. Weight	Packing Length	Conductor Resistance		Mutual Capacitance		Capacitance Unbalance		Insulation Resistance	Dielectric Strength	
Size	No. of Pairs	Sheath Thickness	Overall Diameter			Max. Average	Max. for 90% of Cases	Max. Average	Max.	Pair to Pair	Pair to Ground	Min.	Conductor to Conductor	Conductor to Shield
mm	Pr.	mm	mm	kg/km	m/drum	ohm/km	ohm/km	nF/km	nF/km	pF/500m	pF/km	MΩ/km	DCV	DCV
0.40	2400	3.1	69	7320	250									
0.40	2000	3.0	64	6130	250	143	150	52 ± 2		200	574	10000	600	4000
0.40	1600	2.9	58	4960	500									
0.50	1400	3.1	68	6630	250									
0.50	1200	3.0	63	5730	250									
0.50	1000	2.9	58	4810	500									
0.50	800	2.8	52	3900	500	91	96	52 ± 2		200	574	10000	600	4000
0.50	600	2.7	46	2970	500									
0.50	400	2.3	38	2020	1000									
0.50	200	2.1	28	1070	1000									
0.50	100	2.0	21	585	1000									
0.63	1000	3.2	73	7500	250									
0.63	800	3.0	66	6000	250									
0.63	600	2.9	58	4580	500									
0.63	400	2.7	48	3130	500	58	60	52 ± 2		200	574	10000	600	4000
0.63	200	2.2	35	1620	1000									
0.63	100	2.1	26	870	1000									
0.90	200	2.7	48	3160	500	28	30	52 ± 2		200	574	10000	600	4000
0.90	100	2.3	35	1640	1000									

TELEPHONE CABLE

POLYETHYLENE INSULATED, 25-PAIRS UNIT TWIN,
MOISTURE BARRIER SHEATHED TELEPHONE CABLE (PEUT FS)

SPECIFICATION	: TMB LINES CL 0522
CONDUCTOR	: PLAIN ANNEALED COPPER WIRE
INSULATION	: CELLULAR POLYETHYLENE
SHEATHING	: SOLID POLYETHYLENE

Conductor	: Annealed Copper Wire
Insulation	: The Insulation is a dual insulation with an inner core of cellular polyethylene and an outer skin of solid polyethylene
Twinning	: Two insulated conductors are twisted together to form a pair
Stranding Unit	: 25 pairs
Laid-Up	: Units are laid up into a compact and symmetrical cable core
Core Wrapping	: The cable core is wrapped with a layer of mylar tape
Moisture Barrier Sheath	: An aluminium tape with polymer coating is applied over the cable core and then sheathed with black PE

COLOUR SCHEME FOR PAIRS WITHIN 25 PAIRS UNIT

Pair Number	Colour of Identification		Pair Number	Colour of Identification	
	A - Wire	B - Wire		A - Wire	B - Wire
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Grey
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Grey	18	Yellow	Green
6	Red	Red	Blue	19	Yellow
Brown					
7	Red	Orange	20	Yellow	Grey
8	Red	Green	21	Violet	Blue
9	Red	Red	Brown	22	Violet
Orange					
10	Red	Grey	23	Violet	Green
11	Black	Blue	24	Violet	Brown

TELEPHONE CABLE

POLYETHYLENE INSULATED, 25-PAIRS UNIT TWIN,
MOISTURE BARRIER SHEATHED TELEPHONE CABLE (PEUT FS)

SPECIFICATION	: TMB LINES CL 0522
CONDUCTOR	: PLAIN ANNEALED COPPER WIRE
INSULATION	: CELLULAR POLYETHYLENE
SHEATHING	: SOLID POLYETHYLENE

Conductor	: Annealed Copper Wire
Insulation	: The Insulation is a dual insulation with an inner core of cellular polyethylene and an outer skin of solid polyethylene
Twinning	: Two insulated conductors are twisted together to form a pair
Stranding Unit	: 5 or 10 pairs
Laid-Up	: Units are laid up into a compact and symmetrical cable core
Core Wrapping	: The cable core is wrapped with a layer of mylar tape
Moisture Barrier Sheath	: An aluminium tape with polymer coating is applied over the cable core and then sheathed with black PE

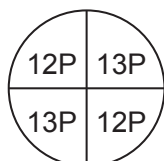
BINDER TAPE FOR CABLE UP TO 600 PAIRS						BINDER TAPE FOR CABLE MORE THAN 600 PAIRS		
25 Pair Group Number	Group Pair Count	Colour of Group Identification	25 Pair Group Number	Group Pair Count	Colour of Group Identification	Multiple Units	Pair Count	Colour of Multiple Unit Group Identification Tapes
1	1 - 25	White - Blue	13	301 - 325	Black - Green	1st 24 groups	1 - 600	White
2	26 - 50	White - Orange	14	326 - 350	Black - Brown	2nd 24 groups	601 - 1200	Red
3	51 - 75	White - Green	15	351 - 375	Black - Grey	3rd 24 groups	1201 - 1800	Black
4	76 - 100	White - Brown	16	376 - 400	Yellow - Blue	4th 24 groups	1801 - 2400	Yellow
5	101 - 125	White - Grey	17	401 - 425	Yellow - Orange	The colour scheme is applicable to multiple units of 50 or 100 pair group within the 24 groups (of 25 pair units)		
6	126 - 150	Red - Blue	18	426 - 450	Yellow - Green			
7	151 - 175	Red - Orange	19	451 - 475	Yellow - Brown			
8	176 - 200	Red - Green	20	476 - 500	Yellow - Green			
9	201 - 225	Red - Brown	21	501 - 525	Violet - Blue			
10	226 - 250	Red - Grey	22	526 - 550	Violet - Orange			
11	251 - 275	Black - Blue	23	551 - 575	Violet - Green			
12	276 - 300	Black - Orange	24	576 - 600	Violet - Brown			

Note: Associated groups of 12 pairs and 13 pairs shall have identical colored tape lappings.

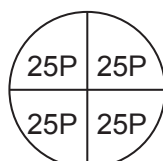
TELEPHONE CABLE

POLYETHYLENE INSULATED, 25-PAIRS UNIT TWIN,
MOISTURE BARRIER SHEATHED TELEPHONE CABLE (PEUT FS)

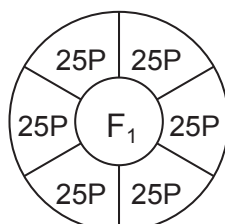
CABLE MAKE-UP



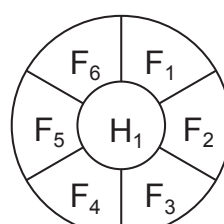
50 Pairs Unit (F)



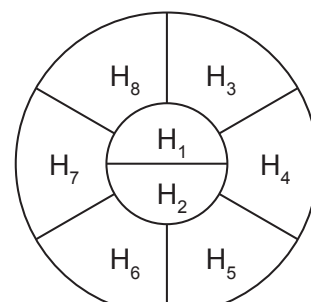
100 Pairs Unit (H)



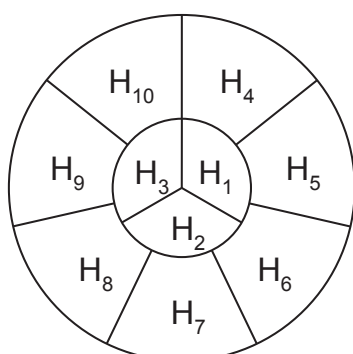
200 Pairs



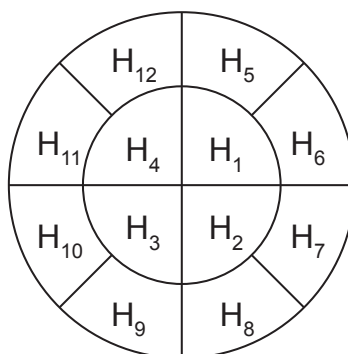
400 Pairs



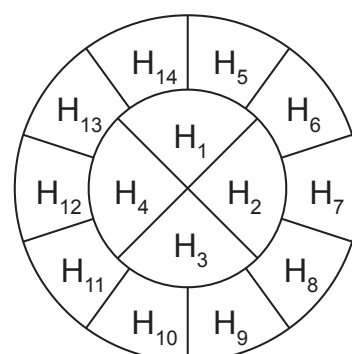
800 Pairs



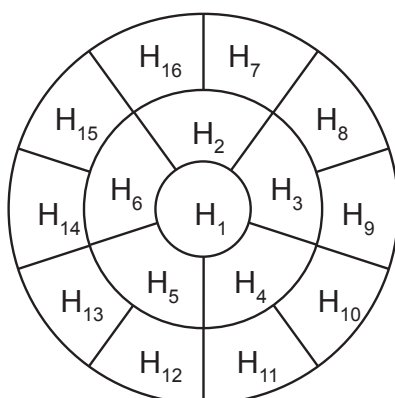
1,000 Pairs



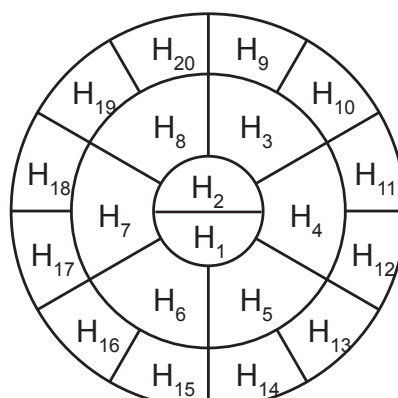
1,200 Pairs



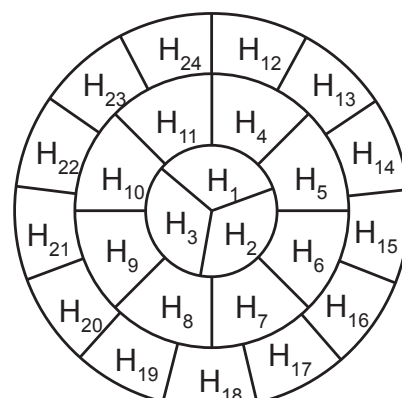
1,400 Pairs



1,600 Pairs



2,000 Pairs



2,400 Pairs

TELEPHONE CABLE

FULLY FILLED, UNIT TWIN, MOISTURE BARRIER SHEATHED CABLE FOR SECONDARY NETWORK (PEUT FF)

SPECIFICATION	: TMB LINES CL 0543
CONDUCTOR	: PLAIN ANNEALED COPPER WIRE
INSULATION	: POLYOLEFIN
SHEATHING	: POLYETHYLENE

Conductor	: Annealed Copper Wire
Insulation	: Coloured foam-skin polyolefin
Twinning	: Two insulated conductors are twisted together to form a pair
Stranding Unit	: 5 or 10 pairs
Laid-Up	: Units are laid up into a compact and symmetrical cable core
Core Wrapping	: The cable core is wrapped with a layer of mylar tape
Filling	: The interstices of the cable core are completely filled with jelly compound
Moisture Barrier Sheath	: An aluminium tape with polymer coating is applied over the cable core and then sheathed with black PE

Conductor		PE	Cable	Approx. Weight	Packing Length	Conductor Resistance		Mutual Capacitance		Capacitance Unbalance		Insulation Resistance	Dielectric Strength	
Size	No. of Pairs	Sheath Thickness	Overall Diameter			Max. Average	Max. for 90% of Cases	Max. Average	Max.	Pair to Pair	Pair to Ground	Min.	Conductor to Conductor	Conductor to Shield
mm	Pr.	mm	mm	kg/km	m/drum	Ω/km	Ω/km	nF/km	nF/km	pF/500m	pF/km	MΩ/km	DCV	DCV
0.40	10	2.1	10.2	100	2000	143	150	52 ± 2	3% of Average Value	200	574	10000	2000	4000
0.40	20	2.1	11.9	165	1000	143	150	52 ± 2		200	574	10000	2000	4000
0.40	30	2.1	13.2	220	1000	143	150	52 ± 2		200	574	10000	2000	4000
0.40	50	2.1	15.3	340	1000	143	150	52 ± 2		200	574	10000	2000	4000
0.40	100	2.1	19.3	550	1000	143	150	52 ± 2		200	574	10000	2000	4000
0.40	200	2.3	26.5	930	1000	143	150	52 ± 2		200	574	10000	2000	4000
0.50	10	2.1	11.5	140	2000	91	96	52 ± 2		200	574	10000	2000	4000
0.50	20	2.1	13.9	220	1000	91	96	52 ± 2		200	574	10000	2000	4000
0.50	30	2.1	15.3	290	1000	91	96	52 ± 2		200	574	10000	2000	4000
0.50	50	2.1	18.3	420	1000	91	96	52 ± 2		200	574	10000	2000	4000
0.50	100	2.1	23.8	740	1000	91	96	52 ± 2		200	574	10000	2000	4000
0.50	200	2.4	32.4	1350	1000	91	96	52 ± 2		200	574	10000	2000	4000
0.63	10	2.1	13.7	190	2000	58	60	52 ± 2		200	574	10000	2000	4000
0.63	20	2.1	15.7	305	1000	58	60	52 ± 2		200	574	10000	2000	4000
0.63	30	2.1	18.5	410	1000	58	60	52 ± 2		200	574	10000	2000	4000
0.63	50	2.1	22.0	620	1000	58	60	52 ± 2		200	574	10000	2000	4000
0.63	100	2.3	28.7	1110	1000	58	60	52 ± 2		200	574	10000	2000	4000
0.63	200	2.4	39.4	2055	1000	58	60	52 ± 2		200	574	10000	2000	4000
0.90	10	2.1	14.8	310	2000	28	30	52 ± 2		200	574	10000	2000	4000
0.90	20	2.1	19.2	525	1000	28	30	52 ± 2		200	574	10000	2000	4000
0.90	30	2.1	21.3	730	1000	28	30	52 ± 2		200	574	10000	2000	4000
0.90	50	2.2	27.1	1130	1000	28	30	52 ± 2		200	574	10000	2000	4000
0.90	100	2.4	38.1	2100	500	28	30	52 ± 2		200	574	10000	2000	4000
0.90	200	2.9	51.0	4030	500	28	30	52 ± 2		200	574	10000	2000	4000
1.27	10	2.2	21.1	540	2000	14	15	52 ± 2		200	574	10000	2000	4000
1.27	20	2.2	27.6	1120	1000	14	15	52 ± 2		200	574	10000	2000	4000
1.27	30	2.3	32.7	1700	1000	14	15	52 ± 2		200	574	10000	2000	4000
1.27	50	2.4	40.7	2800	500	14	15	52 ± 2		200	574	10000	2000	4000
1.27	100	2.9	56.0	4900	500	14	15	52 ± 2		200	574	10000	2000	4000
1.27	200	3.3	76.9	8650	250	14	15	52 ± 2		200	574	10000	2000	4000

The measured values shall be divided by $1/2 \left(\frac{1}{500} + \sqrt{\frac{1}{500}} \right)$ where L is the length in meter of the cable under test.
Length less than 100 meters are considered as 100 meters

TELEPHONE CABLE

FULLY FILLED, UNIT TWIN, MOISTURE BARRIER SHEATHED CABLE FOR SECONDARY NETWORK (PÉUT FF)

COLOR SCHEME FOR 5-PAIR AND 10-PAIR UNITS					
Pair Number	A - Wire	B - Wire	Notes		
1	White	Blue	First 5 Pair Unit	10 Pairs Unit	
2	White	Orange			
3	White	Green			
4	White	Brown			
5	White	Grey			
6	Red	Blue	Second 5 Pair Unit		
7	Red	Orange			
8	Red	Green			
9	Red	Brown			
10	Red	Grey			

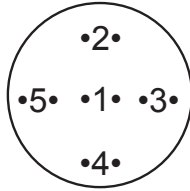
1st 5 pair is from No. 1 to No. 5
2nd 5 pair is from No. 6 to No. 10

COLOR OF BINDER TAPES 10-PAIR UNITS			
Unit No.	Colour of Binder	Unit No.	Colour of Binder
1	Blue	11	Blue
1A, 1B			
2	Orange	12	Orange
2A, 2B			
3	Green	13	Green
4	Brown	14	Brown
5	Grey	15	Grey
6	Blue-White	16	Blue-White
7	Orange-White	17	Orange-White
8	Green-White	18	Green-White
9	Brown-White	19	Brown-White
10	Grey-White	20	Grey-White

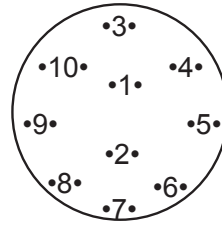
Unit No. 11-20 only apply to 200 pair cable

TELEPHONE CABLE

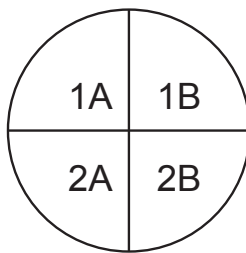
FULLY FILLED, UNIT TWIN, MOISTURE BARRIER SHEATHED CABLE FOR SECONDARY NETWORK (PÉUT FF)



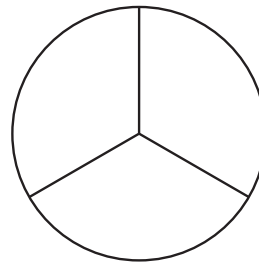
5 Pairs Cable
(Or Sub Unit)



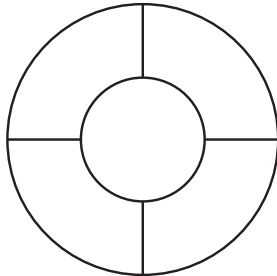
10 Pairs Cable
(Or Sub Unit)



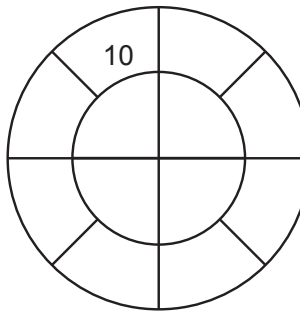
20 Pairs Cable
(Or 20 Pair Unit)
4 X 5 Pair Sub Units



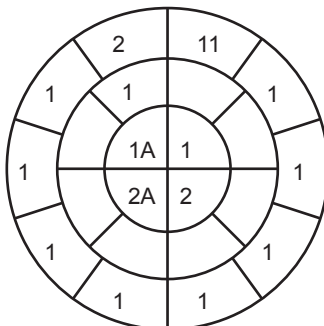
30 Pairs Cable
3 X 10 Pair Sub Units



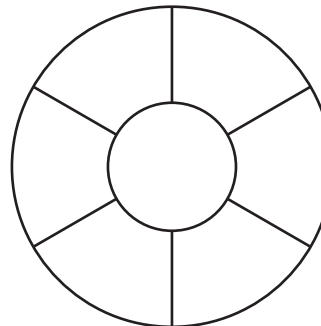
50 Pairs Cable
5 X 10 Pair Sub Units



100 Pairs Cable
Core 1 X 20 Pair Units
Layer 8 X 10 Pair Sub Units



200 Pairs Cable
Core 100 Pair Unit
Layer 10 X 10 Sub Units



400 Pairs Cable
Core 100 Pair Units
Layer 6 X 50 Pair Units

TELEPHONE CABLE

CABLE TELEPHONE, POLYETHYLENE INSULATED, MOISTURE BARRIER SHEATHED, UNIT TWIN TYPE, INTEGRAL BEARER FOR AERIAL ERECTION (PEUT IB)

SPECIFICATION	: TMB LINES AC 0001
CONDUCTOR	: PLAIN ANNEALED COPPER WIRE
INSULATION	: HIGH DENSITY POLYETHYLENE
SHEATHING	: POLYETHYLENE

Conductor	: Annealed Copper Wire
Insulation	: High density polyethylene conforming with the colour standard of BS 6746 C
Twinning	: Two insulated conductors are twisted together to form a pair
Stranding Unit	: 5 or 10 pairs
Laid-Up	: Units are laid up into a compact and symmetrical cable core
Core Wrapping	: The cable core is wrapped with a layer of mylar tape
Bearer Wire	: High tensile galvanized steel wire
Moisture Barrier Sheath	: An aluminium tape with polymer coating is applied over the cable core and then sheathed with black PE
Bearer Wire	: High tensile Galvanized Steel Wire

Conductor		PE	Bearer Wire				Dimension		Approx. Weight	Packing Length
Size	No. of Pairs	Sheath Thickness	Size	Web Thickness	Web Depth	Bearer Sheath Thickness	M1	M2		
mm	Pr	mm	mm	kg/km	m/drum	Ω/km	Ω/km	nF/km	nF/km	pF/500m
0.40	5	2.1	1/2.5	2.0	1.5	1.0	14.9	8.6	125	2000
0.40	10	2.1	1/2.5	2.0	1.5	1.0	16.3	10.1	160	2000
0.40	20	2.1	1/2.5	2.0	1.5	1.0	18.3	12.2	200	1000
0.40	30	2.1	1/2.5	2.0	1.5	1.0	20.8	14.7	260	1000
0.40	50	2.1	1/2.5	2.0	1.5	1.0	23.6	17.5	350	1000
0.40	100	2.2	7/1.2	2.0	1.5	1.3	29.7	22.1	580	1000
0.40	200	2.3	7/1.6	2.5	1.5	1.5	33.5	25.9	1000	1000
0.40	400	2.5	7/2.0	3.0	1.5	1.5	45.8	35.1	1800	500
0.50	5	2.1	1/2.5	2.0	1.5	1.0	15.7	9.5	140	2000
0.50	10	2.1	1/2.5	2.0	1.5	1.0	17.5	11.4	175	2000
0.50	20	2.1	1/2.5	2.0	1.5	1.0	20.3	14.2	245	1000
0.50	30	2.1	7/1.2	2.0	1.5	1.0	27.4	19.8	345	1000
0.50	50	2.2	7/1.2	2.0	1.5	1.3	28.4	20.8	500	1000
0.50	100	2.3	7/1.6	2.5	1.5	1.5	36.1	26.8	900	1000
0.50	200	2.4	7/2.0	3.0	1.5	1.5	41.4	30.7	1500	500
0.50	400	2.7	7/2.0	3.0	1.5	1.5	53.4	42.7	2500	500
0.63	5	2.1	1/2.5	2.0	1.5	1.0	16.9	10.6	160	2000
0.63	10	2.1	1/2.5	2.0	1.5	1.0	19.0	12.9	320	2000
0.63	20	2.1	1/2.5	2.0	1.5	1.0	22.1	16.0	320	1000
0.63	30	2.2	7/1.2	2.0	1.5	1.3	29.7	20.3	445	1000
0.63	50	2.2	7/1.2	2.0	1.5	1.3	31.5	23.8	650	1000
0.63	100	2.4	7/1.6	2.5	1.5	1.5	38.6	30.9	1200	1000
0.63	200	2.5	7/2.0	3.0	1.5	1.5	48.3	37.6	2050	500
0.90	5	2.1	1/2.5	2.0	1.5	1.0	19.2	12.9	220	2000
0.90	10	2.1	1/2.5	2.0	1.5	1.0	22.9	16.7	330	2000
0.90	20	2.2	7/1.2	2.0	1.5	1.3	29.2	21.6	560	1000
0.90	30	2.3	7/1.2	2.0	1.5	1.3	34.4	26.6	750	1000
0.90	50	2.4	7/1.6	2.5	1.5	1.5	42.7	33.2	1180	500
0.90	100	2.6	7/2.0	3.0	1.5	1.5	53.1	42.4	2150	500
1.27	5	2.1	1/2.5	2.0	1.5	1.0	25.1	18.8	380	1000
1.27	10	2.3	7/1.2	2.0	1.5	1.3	31.3	25.7	670	1000
1.27	20	2.5	7/1.6	2.5	1.5	1.5	45.4	35.8	1140	500
1.27	30	2.7	7/2.0	3.0	1.5	1.5	45.9	45.9	1630	500

The measured values shall be divided by $1/2 \left(\frac{L}{500} + \sqrt{\frac{L}{500}} \right)$ where L is the length in meter of the cable under test.
Length less than 100 meters are considered as 100 meters

TELEPHONE CABLE

CABLE TELEPHONE, POLYETHYLENE INSULATED, MOISTURE BARRIER SHEATHED, UNIT TWIN TYPE, INTEGRAL BEARER FOR AERIAL ERECTION (PEUT IB)

ELECTRICAL CHARACTERISTICS

Size	Conductor Resistance		Mutual Capacitance		Capacitance Unbalance		Insulation Resistance		Dielectric Strength
	Max. Average	Max. for 90% of Cases	Max. Average	Max.	Pair to Pair	Pair to Ground	Min.	Conductor to Conductor	Conductor to Shield
mm	Ω/m	Ω/km	nF/km	nF/km	pF/500m	pF/km	MΩ/km	DCV	DCV
0.40	143	150	52 ± 2		200	574	10000	2000	4000
0.50	91	96	52 ± 2	3% of	200	574	10000	2000	4000
0.63	58	60	52 ± 2	Average	200	574	10000	2000	4000
0.90	28	30	52 ± 2	Value	200	574	10000	2000	4000
1.27	14	15	52 ± 2		200	574	10000	2000	4000

The measured values shall be divided by $1/2 \left(\frac{L}{500} + \sqrt{\frac{L}{500}} \right)$ where L is the length in meter of the cable under test.
Length less than 100 meters are considered as 100 meters.

COLOUR SCHEME FOR 5-PAIR AND 10-PAIR UNITS		
Pair Number	Colour of Insulation	
	A - Wire	B - Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Grey

1st 5 pair is from No. 1 to No. 5
2nd 5 pair is from No. 6 to No. 10

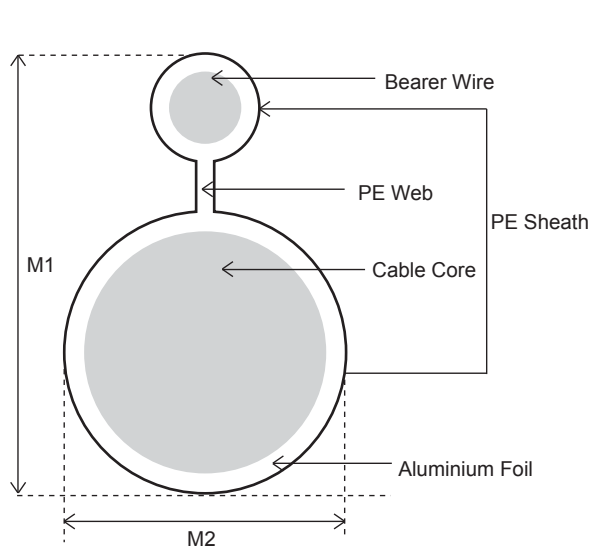
COLOUR OF BINDER TAPES 10 PAIR UNITS			
Unit No.	Colour of Binder	Unit No.	Colour of Binder
1	Blue	11	Blue
1A, 1B			
2	Orange	12	Orange
2A, 2B			
3	Green	13	Green
4	Brown	14	Brown
5	Grey	15	Grey
6	Blue-White	16	Blue-White
7	Orange-White	17	Orange-White
8	Green-White	18	Green-White
9	Brown-White	19	Brown-White
10	Grey-White	20	Grey-White

Unit No. 11-20 only apply to 200 pair cable

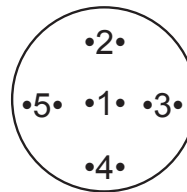
TELEPHONE CABLE

CABLE TELEPHONE, POLYETHYLENE INSULATED, MOISTURE BARRIER SHEATHED, UNIT TWIN TYPE, INTEGRAL BEARER FOR AERIAL ERACKION (PEUT IB)

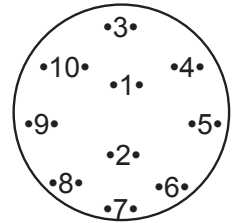
CROSS-SECTION OF PEUT IB CABLE



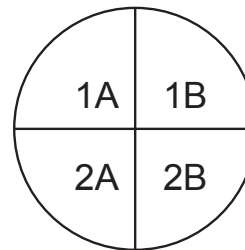
CABLE MAKE-UP



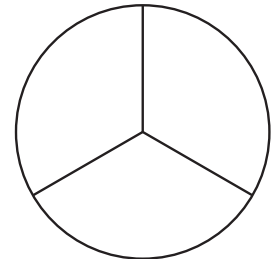
5 Pairs Cable
(Or Sub Unit)



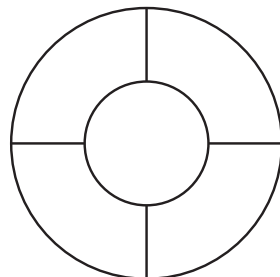
10 Pairs Cable
(Or Sub Unit)



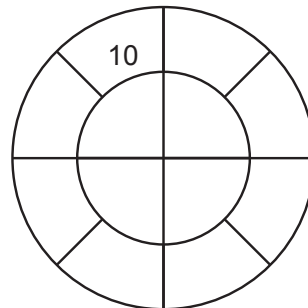
20 Pairs Cable
(Or 20 Pair Unit)
4 X 5 Pair Sub Units



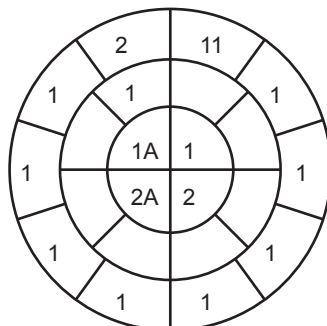
30 Pairs Cable
3 X 10 Pair Sub Units



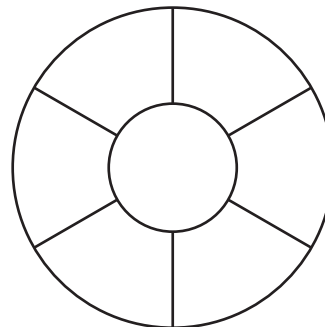
50 Pairs Cable
5 X 10 Pair Sub Units



100 Pairs Cable
Core 1 X 20 Pair Units
Layer 8 X 10 Pair Sub Units



200 Pairs Cable
Core 100 Pair Unit
Layer 10 X 10 Sub Units



400 Pairs Cable
Core 100 Pair Units
Layer 6 X 50 Pair Units

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All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct and reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance of any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for these products is set forth in our standard terms and conditions of sale.

TELEPHONE CABLE

FULLY FILLED, POLYETHYLENE INSULATED, UNIT TWIN ARMoured TELEPHONE CABLE (BS 3573)

SPECIFICATION	: TMB LINES AC 0001
CONDUCTOR	: PLAIN ANNEALED COPPER WIRE
INSULATION	: HIGH DENSITY POLYETHYLENE
SHEATHING	: POLYETHYLENE

Conductor	: Annealed Copper Wire
Insulation	: High density polyethylene
Twinning	: Two insulated conductors are twisted together to form a pair
Stranding Unit	: 5 or 10 pairs
Laid-Up	: Units are laid up into a compact and symmetrical cable core
Core Wrapping	: The cable core is wrapped with a layer of mylar tape
Filling	: The interstices of the cable core are completely filled with jelly compound
Moisture Barrier Sheath	: An aluminium tape with polymer coating is applied over the cable core and then sheathed with black PE
Armoured	: Galvanized Steel Wire
Sheath	: Polyethylene

Conductor		Thickness of Sheath	Overall Dia. of Unarmoured Cable	Dia. of Armour Wire	Thickness of Outer Protection	Overall Dia. of Cable
Size	No. of Pairs	Min.	Max.	Nom.	Min.	Max.
mm	Pr.	mm	mm	mm	mm	mm
0.4	5	1.1	7.5	0.9	0.9	12.5
0.4	10	1.1	8.5	0.9	0.9	13.5
0.4	20	1.1	9.5	0.9	0.9	12.5
0.4	30	1.2	10.5	0.9	0.9	17.0
0.4	50	1.2	11.5	1.3	0.9	20.0
0.4	75	1.3	12.5	1.6	1.0	23.5
0.4	100	1.3	13.5	1.6	1.0	25.5
0.5	2	1.1	7.5	0.9	0.9	13
0.5	5	1.1	8.0	0.9	0.9	13.5
0.5	10	1.1	9.5	0.9	0.9	15.0
0.5	20	1.2	12.0	0.9	0.9	17.5
0.5	30	1.2	14.0	1.25	0.9	20.0
0.5	50	1.3	16.5	1.6	1.0	23.5
0.5	75	1.3	19.0	1.6	1.0	26.0
0.5	100	1.4	22.0	1.6	1.1	29.0
0.63	2	1.1	8.0	0.9	0.9	13.5
0.63	5	1.1	9.5	0.9	0.9	15.0
0.63	10	1.2	11.5	0.9	0.9	17.0
0.63	20	1.2	14.0	1.25	0.9	20.0
0.63	30	1.3	16.5	1.6	1.0	23.0
0.63	50	1.4	20.5	1.6	1.1	27.5
0.63	75	1.4	24.5	1.6	1.1	31.5
0.63	100	1.5	27.5	2.0	1.2	35.5
0.9	2	1.1	9.0	0.9	0.9	14.0

Note: For screened cables, the maximum overall diameters may be increases by 1.

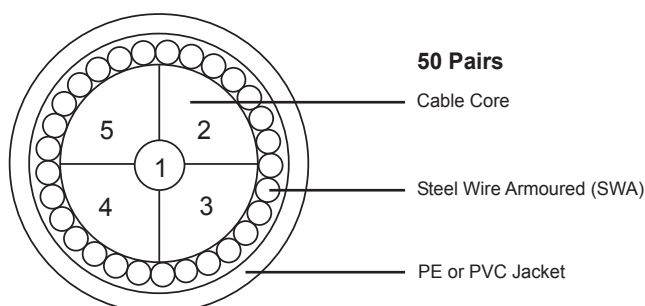
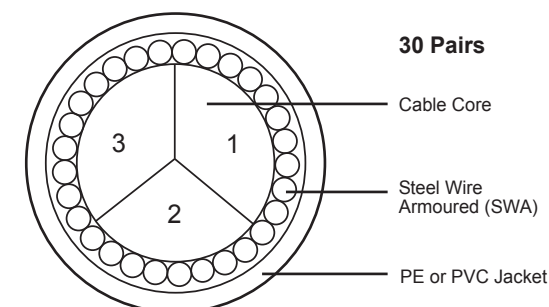
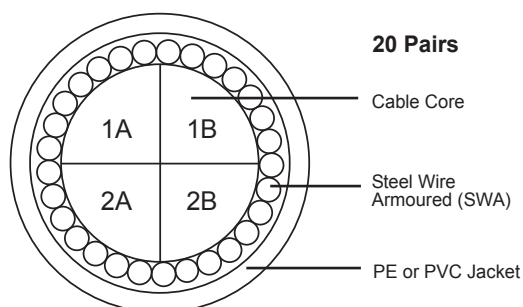
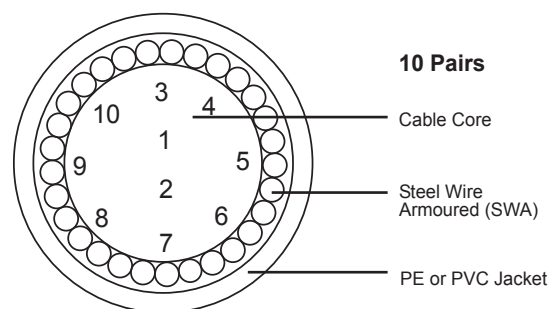
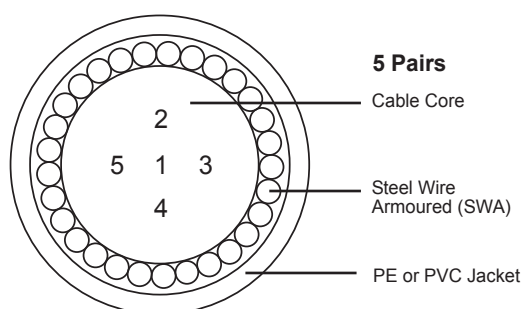
TELEPHONE CABLE

FULLY FILLED, POLYETHYLENE INSULATED, UNIT TWIN ARMoured TELEPHONE CABLE (BS 3573)

CABLE DIMENSIONS FOR 0.63MM CONDUCTORS

No. of Pairs	Thickness of Sheath	Overall Diameter of Unarmoured Cable	Diameter of Unarmoured Wire	Thickness of Outer Protection	Overall Diameter of Cable
	Minimum mm	Maximum mm	Nominal mm	Minimum mm	Maximum mm
2	1.1	9.0	0.9	0.9	14.0
5	1.2	11.5	0.9	0.9	17.0
10	1.2	14.0	1.25	0.9	20.0
20	1.3	18.0	1.6	1.0	24.5
30	1.4	21.5	1.6	1.1	28.5
50	1.5	26.5	2.0	1.2	34.5
75	1.6	32.5	2.0	1.3	41.0
100	1.7	36.0	2.0	1.4	44.5

Note: For screened cables, the maximum overall diameters may be increased by 1.5mm



TELEPHONE CABLE

SELF SUPPORTING DROP WIRE NO. 4 & NO. 5

Conductor : Annealed Copper Wire
 Insulation : Black Polyethylene (or black PVC)
 Suspension Wire : 1.2mm Galvanized Steel Wire
 Breaking Load : 128kg
 Elongation : 3%

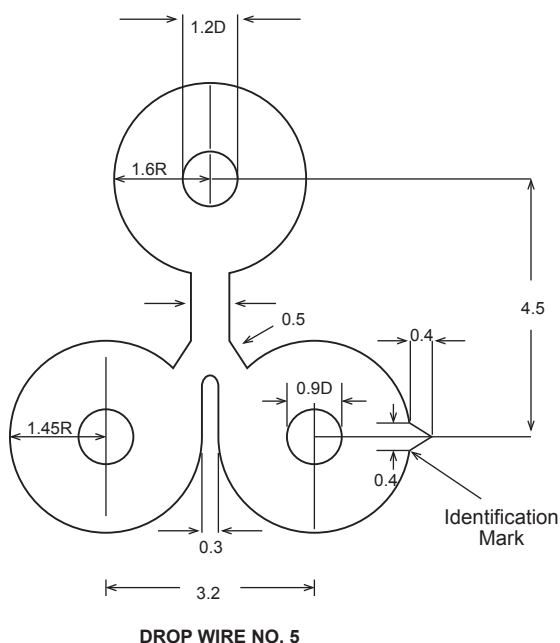
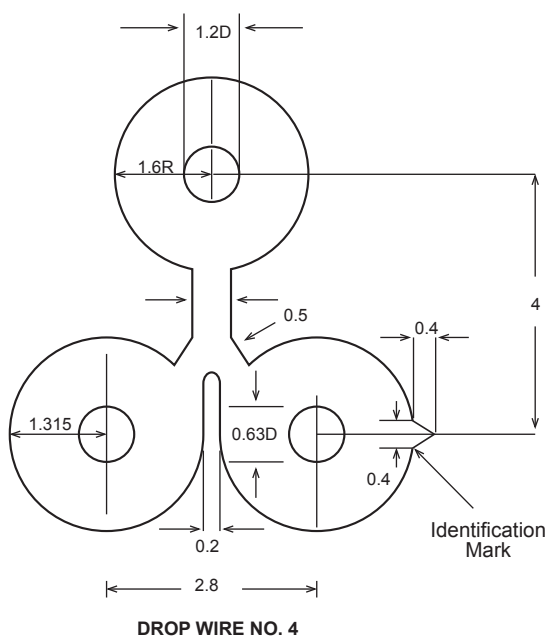
CONSTRUCTION DATA

Cable Type		Conductor		Steel Wire		Overall Dimension	Approx. Weight		Packing Length
		Diameter	Insulation Thickness	Diameter	Insulation Thickness		PVC	PE	
No.	pr x lbs	mm	mm	mm	mm	mm x mm	kg/km	kg/km	m/coil
4	1 x 10	0.63	1.0	1.2	1.0	6.92 x 5.91	45	33	250
5	1 x 20	0.90	1.0	1.2	1.0	7.55 x 6.50	53	41	250
KTmB Order	1 x 25	1.02	1.0	1.2	1.0	7.67 x 6.74	56	44	500

CONSTRUCTION DATA

Cable Type		Nominal Diameter	Max. Resistance at 20°C	Min. Elongation	Specification %
No.	pr x lbs	mm	ohm/km		
4	1 x 10	0.63	58.1	25	Telekom Lines OW 0004, issue 4
5	1 x 20	0.90	28.5	25	
KTMB Order	1 x 25	1.02	24.0	25	KTMB

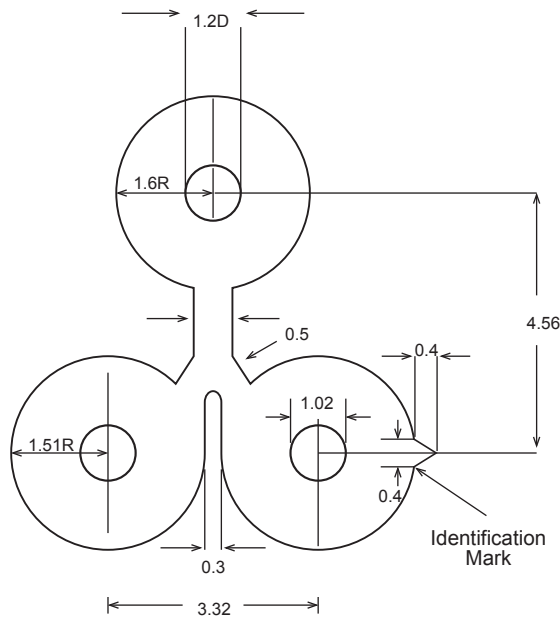
CROSS - SECTION OF DROP WIRE



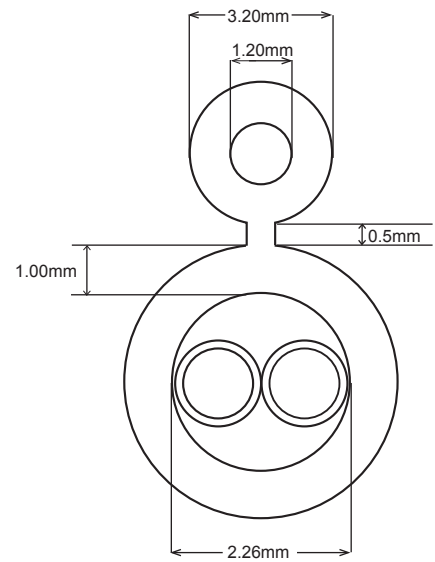
TELEPHONE CABLE

SELF SUPPORTING DROP WIRE NO. 4 & NO. 5

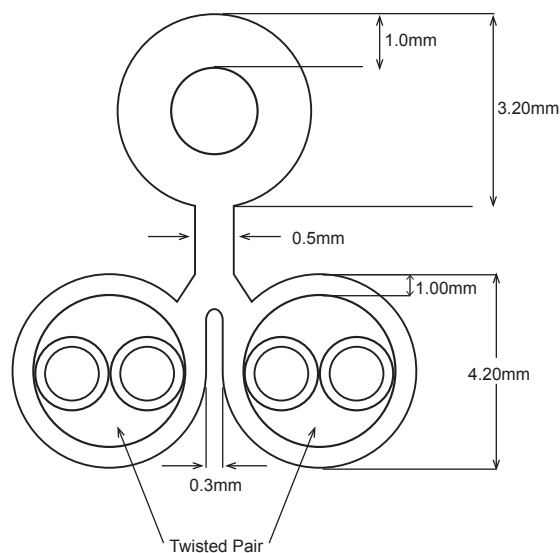
CROSS - SECTION OF DROP WIRE



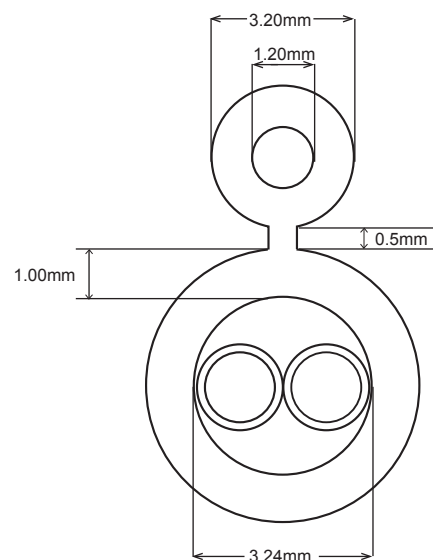
DROP WIRE (KTMB Order)



DROP WIRE (0.63 mm x 1P)



DROP WIRE (0.63 mm x 2P)



DROP WIRE (0.90 mm x 1P)

TELEPHONE CABLE

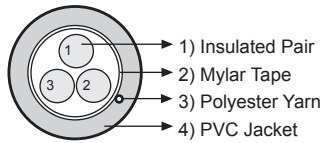
PVC/PVC SWITCHBOARD CABLE (VF CABLE 600 Ω) SWVP

No. of Pair	CONSTRUCTION						CHARACTERISTIC	
	CONDUCTOR		INSULATION		JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter	Material	Diameter	Material	Diameter	Material		
	No. / mm	-	mm	-	mm	-	Ω (20°C)	MΩ-km
3	1 / 0.40	Tinned Cu.	0.85	PVC	4.6	PVC	157	100
4	1 / 0.40	Tinned Cu.	0.85	PVC	4.8	PVC	157	100
8	1 / 0.40	Tinned Cu.	0.85	PVC	5.3	PVC	157	100
10	1 / 0.40	Tinned Cu.	0.85	PVC	7.0	PVC	157	100
12	1 / 0.40	Tinned Cu.	0.85	PVC	7.2	PVC	157	100
15	1 / 0.40	Tinned Cu.	0.85	PVC	8.2	PVC	157	100
16	1 / 0.40	Tinned Cu.	0.85	PVC	8.3	PVC	157	100
24	1 / 0.40	Tinned Cu.	0.85	PVC	9.6	PVC	157	100
25	1 / 0.40	Tinned Cu.	0.85	PVC	9.7	PVC	157	100
30	1 / 0.40	Tinned Cu.	0.85	PVC	10.2	PVC	157	100
32	1 / 0.40	Tinned Cu.	0.85	PVC	10.5	PVC	157	100
40	1 / 0.40	Tinned Cu.	0.85	PVC	11.6	PVC	157	100
48	1 / 0.40	Tinned Cu.	0.85	PVC	11.8	PVC	157	100

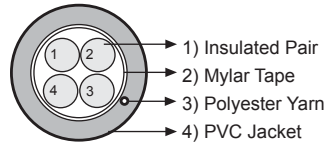
No. of Pair	CONSTRUCTION						CHARACTERISTIC	
	CONDUCTOR		INSULATION		JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter	Material	Diameter	Material	Diameter	Material		
	No. / mm	-	mm	-	mm	-	Ω (20°C)	MΩ-km
3	1 / 0.50	Tinned Cu.	0.96	PVC	4.9	PVC	97.8	100
4	1 / 0.50	Tinned Cu.	0.96	PVC	5.3	PVC	97.8	100
8	1 / 0.50	Tinned Cu.	0.96	PVC	6.9	PVC	97.8	100
10	1 / 0.50	Tinned Cu.	0.96	PVC	7.5	PVC	97.8	100
12	1 / 0.50	Tinned Cu.	0.96	PVC	8.0	PVC	97.8	100
15	1 / 0.50	Tinned Cu.	0.96	PVC	8.8	PVC	97.8	100
16	1 / 0.50	Tinned Cu.	0.96	PVC	9.0	PVC	97.8	100
24	1 / 0.50	Tinned Cu.	0.96	PVC	10.6	PVC	97.8	100
25	1 / 0.50	Tinned Cu.	0.96	PVC	10.8	PVC	97.8	100
30	1 / 0.50	Tinned Cu.	0.96	PVC	11.7	PVC	97.8	100
32	1 / 0.50	Tinned Cu.	0.96	PVC	12.0	PVC	97.8	100
40	1 / 0.50	Tinned Cu.	0.96	PVC	13.2	PVC	97.8	100
48	1 / 0.50	Tinned Cu.	0.96	PVC	14.3	PVC	97.8	100

TELEPHONE CABLE

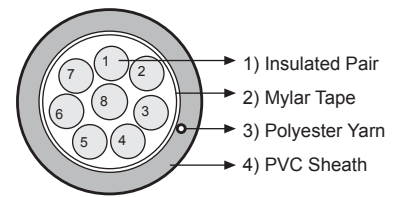
PVC/PVC SWITCHBOARD CABLE (VF CABLE 600 Ω) SWVP



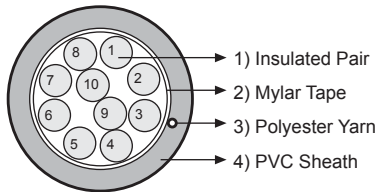
3 Pairs Constructions



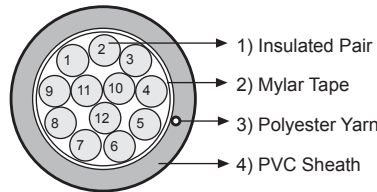
4 Pairs Constructions



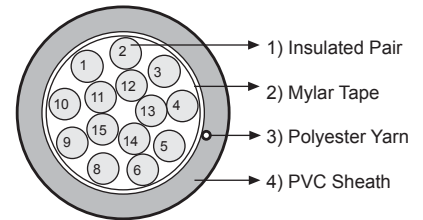
8 Pairs Constructions



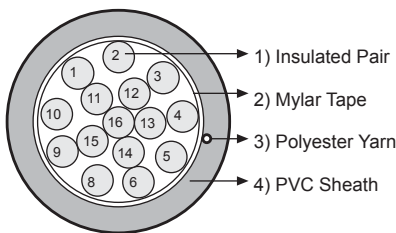
10 Pairs Constructions



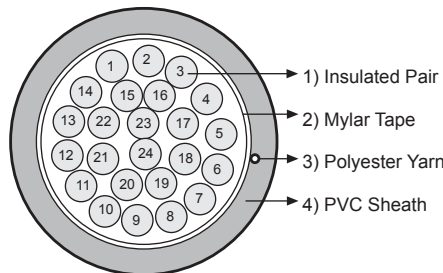
12 Pairs Constructions



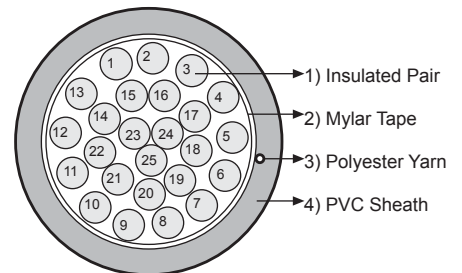
15 Pairs Constructions



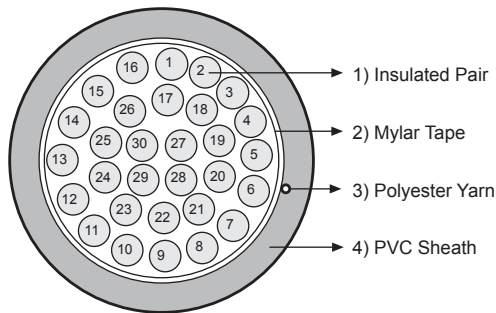
16 Pairs Constructions



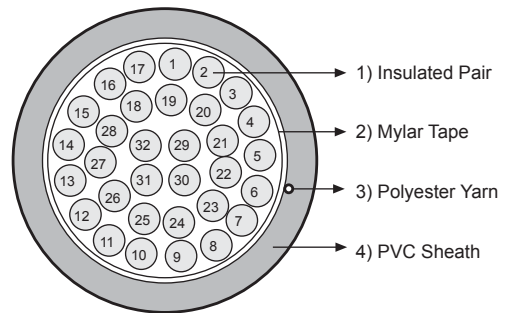
24 Pairs Constructions



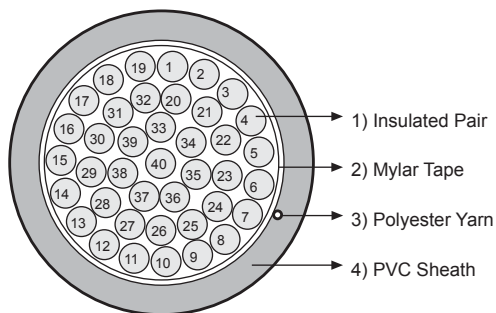
25 Pairs Constructions



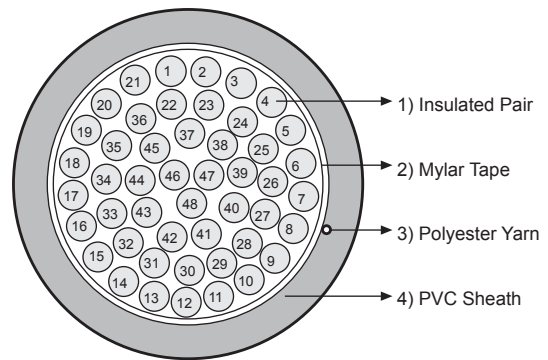
30 Pairs Constructions



32 Pairs Constructions



40 Pairs Constructions



48 Pairs Constructions

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TELEPHONE CABLE

PVC/PVC SWITCHBOARD CABLE (VF CABLE 600 Ω) SWVSA

No. of Pair	CONSTRUCTION									CHARACTERISTIC	
	CONDUCTOR		INSULATION		SHIELDED	DRAIN WIRE		JACKET		Conductor Resistance (Max)	Conductor Resistance (Min)
	Number / Wire Diameter	Material	Diameter	Material	Material	Number / Wire Diameter	Material	Diameter	Material		
	No. / mm	-	mm	-	-	No. / mm	-	mm	-	Ω (20°C)	MΩ-km
3	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	5.00	PVC(FR)	157	100
4	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	5.43	PVC(FR)	157	100
8	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	6.73	PVC(FR)	157	100
10	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	7.25	PVC(FR)	157	100
12	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	7.73	PVC(FR)	157	100
15	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	8.37	PVC(FR)	157	100
16	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	8.57	PVC(FR)	157	100
24	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	9.98	PVC(FR)	157	100
25	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	10.14	PVC(FR)	157	100
30	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	10.89	PVC(FR)	157	100
32	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	11.18	PVC(FR)	157	100
40	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	12.23	PVC(FR)	157	100
48	1 / 0.40	Tinned Cu.	0.85	PVC	Opp / Al Foil	1 / 0.40	Tinned Cu.	13.17	PVC(FR)	157	100

No. of Pair	CONSTRUCTION									CHARACTERISTIC	
	CONDUCTOR		INSULATION		SHIELDED	DRAIN WIRE		JACKET		Conductor Resistance (Max)	Conductor Resistance (Min)
	Number / Wire Diameter	Material	Diameter	Material	Material	Number / Wire Diameter	Material	Diameter	Material		
	No. / mm	-	mm	-	-	No. / mm	-	mm	-	Ω (20°C)	MΩ-km
3	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	5.54	PVC(FR)	97.8	100
4	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	6.03	PVC(FR)	97.8	100
8	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	7.54	PVC(FR)	97.8	100
10	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	8.15	PVC(FR)	97.8	100
12	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	8.70	PVC(FR)	97.8	100
15	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	9.44	PVC(FR)	97.8	100
16	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	9.68	PVC(FR)	97.8	100
24	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	11.23	PVC(FR)	97.8	100
25	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	11.50	PVC(FR)	97.8	100
30	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	12.37	PVC(FR)	97.8	100
32	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	12.70	PVC(FR)	97.8	100
40	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	13.92	PVC(FR)	97.8	100
48	1 / 0.50	Tinned Cu.	0.96	PVC	Opp / Al Foil	1 / 0.50	Tinned Cu.	15.02	PVC(FR)	97.8	100

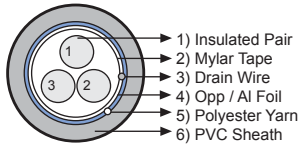
TELEPHONE CABLE

PVC/PVC SWITCHBOARD CABLE (VF CABLE 600 Ω) SWVSA

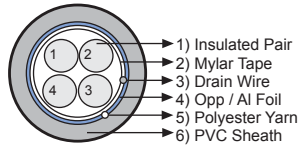
No. of Pair	Colour	Identification Marking	Marking Colour		Pair No.	Colour	Identification Marking	Marking Colour	
			1st Core	2nd Core				1st Core	2nd Core
1	Light Blue	-	Red	Black	25	Light Grey	----- (Cont)	Red	Black
2	Light Pink	-	Red	Black	26	Light Blue	-	Red	Black
3	Light Green	-	Red	Black	27	Light Pink	-	Red	Black
4	Light Orange	-	Red	Black	28	Light Green	-	Red	Black
5	Light Grey	-	Red	Black	29	Light Orange	-	Red	Black
6	Light Blue	--	Red	Black	30	Light Grey	-	Red	Black
7	Light Pink	--	Red	Black	31	Light Blue	--	Red	Black
8	Light Green	--	Red	Black	32	Light Pink	--	Red	Black
9	Light Orange	--	Red	Black	33	Light Green	--	Red	Black
10	Light Grey	--	Red	Black	34	Light Orange	--	Red	Black
11	Light Blue	---	Red	Black	35	Light Grey	--	Red	Black
12	Light Pink	---	Red	Black	36	Light Blue	---	Red	Black
13	Light Green	---	Red	Black	37	Light Pink	---	Red	Black
14	Light Orange	---	Red	Black	38	Light Green	---	Red	Black
15	Light Grey	---	Red	Black	39	Light Orange	---	Red	Black
16	Light Blue	----	Red	Black	40	Light Grey	---	Red	Black
17	Light Pink	----	Red	Black	41	Light Blue	----	Red	Black
18	Light Green	----	Red	Black	42	Light Pink	----	Red	Black
19	Light Orange	----	Red	Black	43	Light Green	----	Red	Black
20	Light Grey	----	Red	Black	44	Light Orange	----	Red	Black
21	Light Blue	----- (Cont)	Red	Black	45	Light Grey	----	Red	Black
22	Light Pink	----- (Cont)	Red	Black	46	Light Blue	(Cont)	Red	Black
23	Light Green	----- (Cont)	Red	Black	47	Light Pink	(Cont)	Red	Black
24	Light Orange	----- (Cont)	Red	Black	48	Light Green	(Cont)	Red	Black

TELEPHONE CABLE

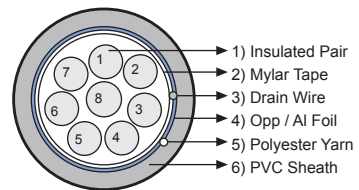
PVC/PVC SWITCHBOARD CABLE (VF CABLE 600 Ω) SWVSA



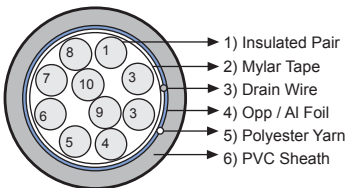
3 Pairs Constructions



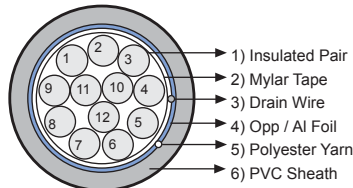
4 Pairs Constructions



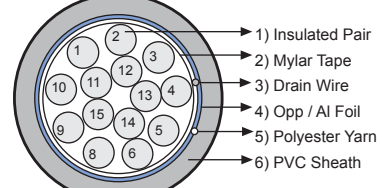
8 Pairs Constructions



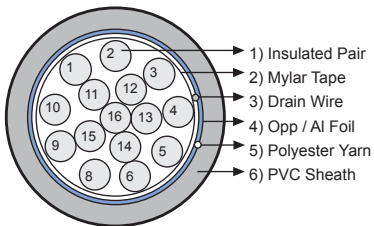
10 Pairs Constructions



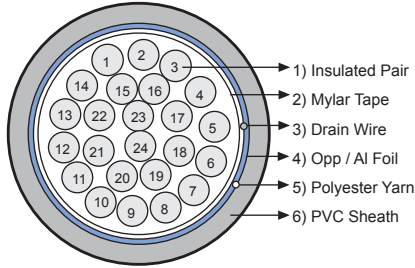
12 Pairs Constructions



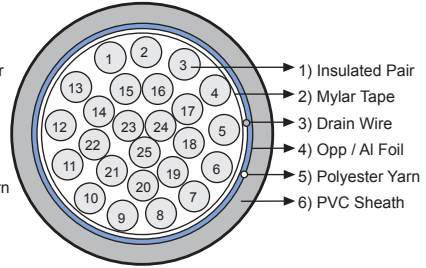
15 Pairs Constructions



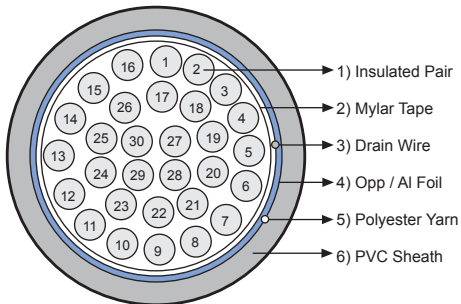
16 Pairs Constructions



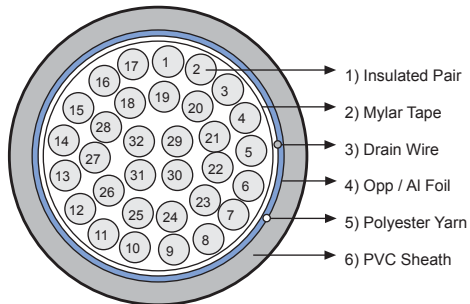
24 Pairs Constructions



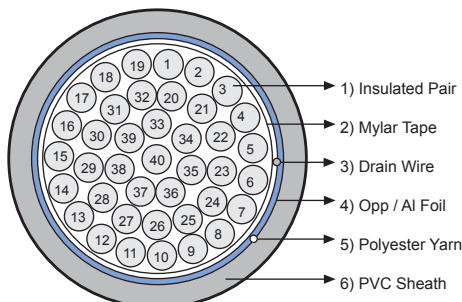
25 Pairs Constructions



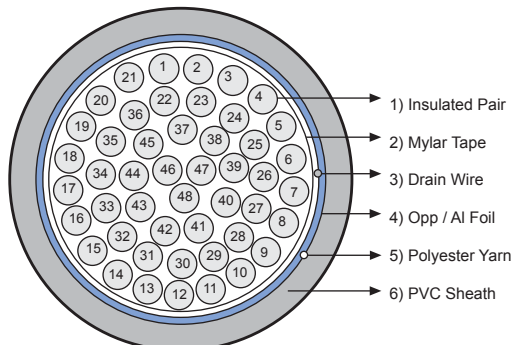
30 Pairs Constructions



32 Pairs Constructions



40 Pairs Constructions



48 Pairs Constructions

TELEPHONE CABLE

INDIVIDUAL GROUP SCREEN CABLE (IVFVSA)

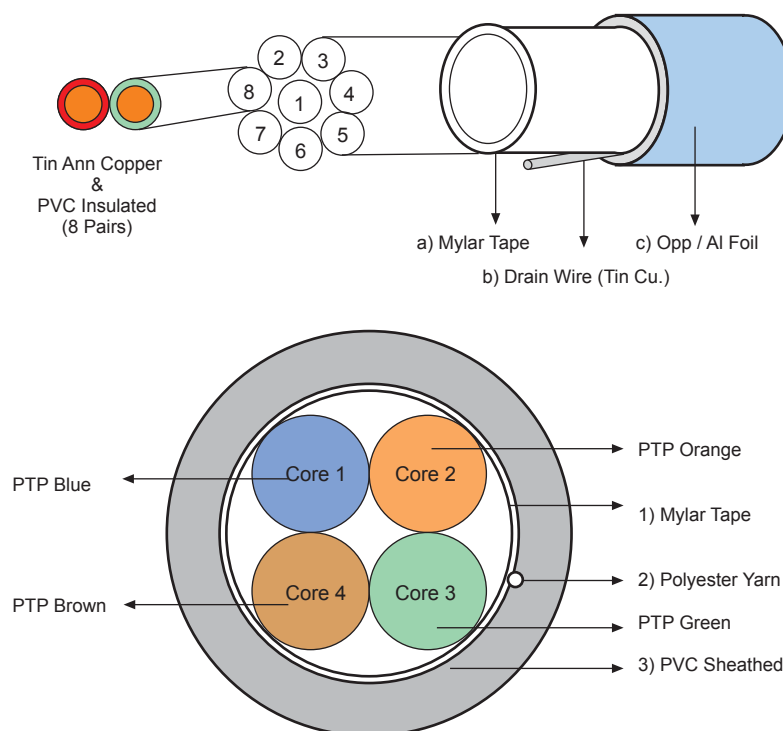
Type	CONSTRUCTION							CHARACTERISTIC	
	CONDUCTOR		INSULATION		SHIELDED	JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Dia.	Material	Diameter	Material		Diameter	Material		
	No. / mm	-	mm	-	-	mm	-	Ω (20°C)	MΩ-km
(0.5mm × 8P + G)×4C	1 / 0.50	Tinned. Cu	0.85	PVC	Opp / Al Foil	11.50	PVC	97.8	500

Table 1

No. Pair	Insulation Colour	
	A Wire	B Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	White	Blue
7	White	Orange
8	White	Green

Table 2

Core Colour	PTP Tape Colour Code
1	Blue
2	Orange
3	Green
4	Brown



TELEPHONE CABLE

VF SCREENED & SHIELDED CABLE (SWEPT)

Type	CONSTRUCTION							CHARACTERISTIC	
	CONDUCTOR		INSULATION		SHIELDED	JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter	Material	Diameter	Material	Material	Diameter	Material		
	No. / mm	-	mm	-	-	mm	-	Ω (20°C)	MΩ-km
0.4mm ×33P + G + 1P	1 / 0.40	Bare Ann. Cu	0.80	HDPE	AL / MY / AI + Tinned Cu. Braiding	11.00	PVC	153	5000
0.4mm ×96P	1 / 0.40	Bare Ann. Cu	0.78	HDPE	AL / MY / AI + Tinned Cu. Braiding	17.10	PVC	153	5000
0.4mm ×128P + 2P	1 / 0.40	Bare Ann. Cu	0.73	HDPE	+ Tinned Cu. Braiding	18.60	PVC	153	5000

Colour Code

96 Pairs

33 Pairs

Table 1

Pair No.	Colour Code	
	A Wire	B Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	Red	Blue
6	Red	Orange
7	Red	Green
8	Red	Brown
Spare Pair	Black	Blue

Table 2

Core Colour	PTP Tape Colour Code
1	Blue
2	Orange
3	Green
4	Brown

Table 1

Pair No.	Colour of Insulation	
	A Wire	B Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	Red	Orange
7	Red	Green
8	Red	Brown
9	Red	Brown
10	Red	Grey
11	Black	Blue
12	Black	Orange
13	Black	Green
14	Black	Brown
15	Black	Grey
16	Yellow	Blue
17	Yellow	Orange
18	Yellow	Green
19	Yellow	Brown
20	Yellow	Grey
21	Voilet	Blue
22	Voilet	Orange
23	Voilet	Green
24	Voilet	Brown

Table 2

Core Colour	PTP Tape Colour Code
1	Blue
2	Orange
3	Green
4	Brown

128 Pairs + 2P

Table 1

Pair No.	Colour Code	
	A Wire	B Wire
1	Blue	White
2	Yellow	White
3	Brown	White
4	Black	White
5	Green	White
6	Orange	White
7	Grey	White
8	Voilet	White
Spare	Blue	White
Pair	Yellow	White

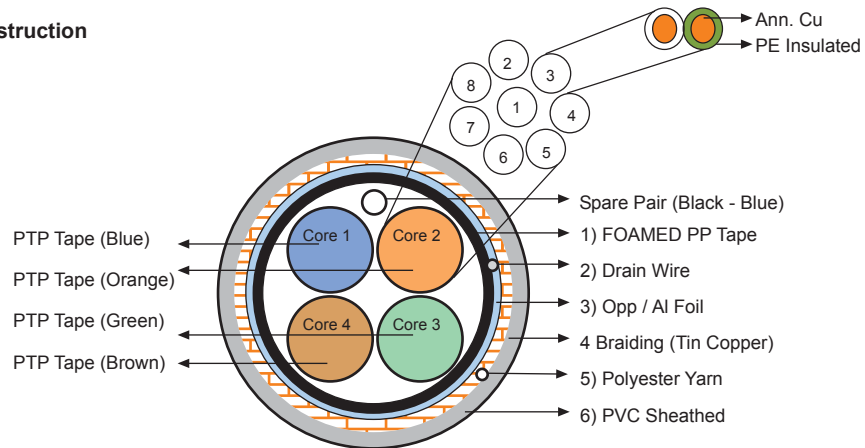
Table 2

Core Colour	PTP Tape Colour Code
1	White
2	Blue
3	Yellow
4	Brown

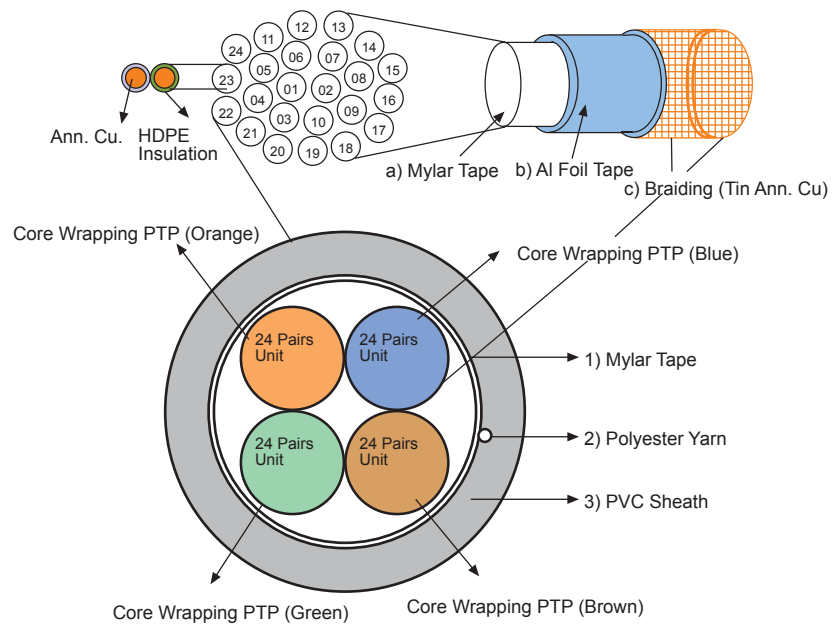
TELEPHONE CABLE

VF SCREENED & SHIELDED CABLE (SWEET)

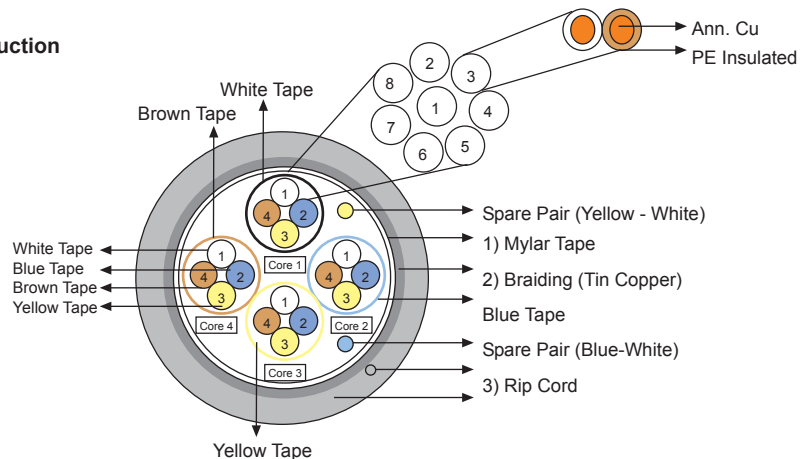
33 Pairs + 1 Spare Pair Construction



96 Pairs Construction



128 Pairs + 2 Spare Pairs Construction



TELEPHONE CABLE

VF OVERALL SCREENED & SHIELDED CABLE 120 Ω (VFESA)

No. of Pair	SCREENED CONSTRUCTION									CHARACTERISTIC	
	CONDUCTOR		INSULATION		SCREENED	DRAIN WIRE		JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter No. / mm	Material	Diameter	Material	Material	Number / Wire Diameter No. / mm	Material	Diameter	Material		
		-	mm	-	-	No. / mm	-	mm	-	Ω (20°C)	MΩ-km
1	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	4.03	PVC	97.8	1000
2	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	4.89	PVC	97.8	1000
4	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	5.92	PVC	97.8	1000
8	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	7.39	PVC	97.8	1000
12	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	8.51	PVC	97.8	1000
16	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	9.46	PVC	97.8	1000
24	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	11.05	PVC	97.8	1000
25	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	11.23	PVC	97.8	1000
30	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	12.07	PVC	97.8	1000
32	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	12.39	PVC	97.8	1000

No. of Pair	SCREENED CONSTRUCTION									CHARACTERISTIC	
	CONDUCTOR		INSULATION		SCREENED	DRAIN WIRE		JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter No. / mm	Material	Diameter	Material	Material	Number / Wire Diameter No. / mm	Material	Diameter	Material		
		-	mm	-	-	No. / mm	-	mm	-	Ω (20°C)	MΩ-km
1	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	4.03	PVC	97.8	1000
2	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	4.89	PVC	97.8	1000
4	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	5.92	PVC	97.8	1000
8	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	7.39	PVC	97.8	1000
12	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	8.51	PVC	97.8	1000
16	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	9.46	PVC	97.8	1000
24	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	11.05	PVC	97.8	1000
25	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	11.23	PVC	97.8	1000
30	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	12.07	PVC	97.8	1000
32	1 / 0.40	Tinned Cu.	0.86	HDPE	Opp / Al Foil	1 / 0.40	Tinned Cu.	12.39	PVC	97.8	1000

COLOUR CHART OF INSULATION

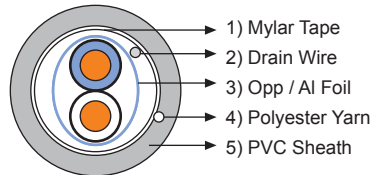
Pair No.	Insulation Colour	
	A Wire	B Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	Red	Grey
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Grey

COLOUR CHART OF BINDER TAPE

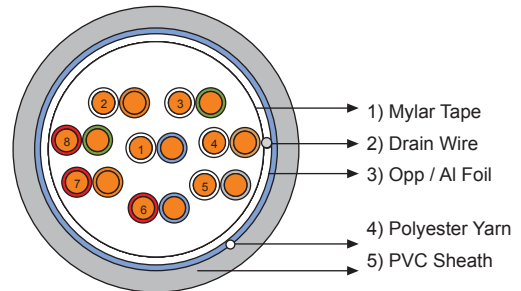
No. of Sub Unit	Binder Colour
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White - Blue

TELEPHONE CABLE

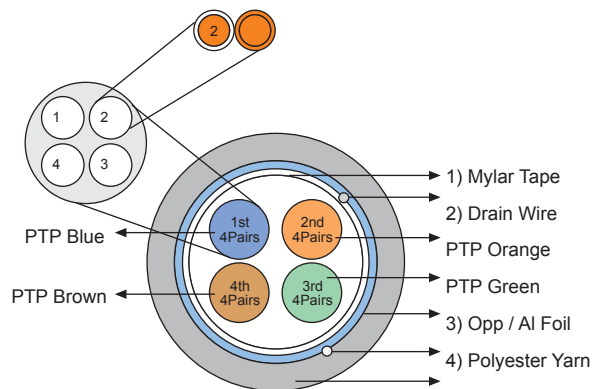
VF OVERALL SCREENED & SHIELDED CABLE 120 Ω (VFESA)



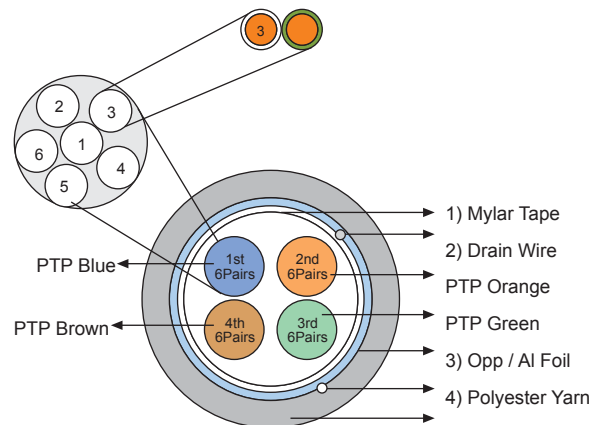
1 Pair Construction



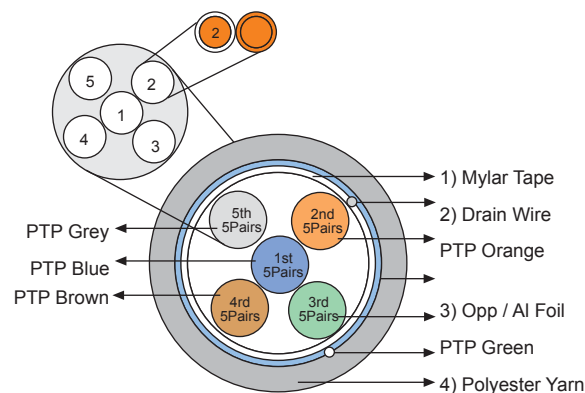
8 Pairs Construction



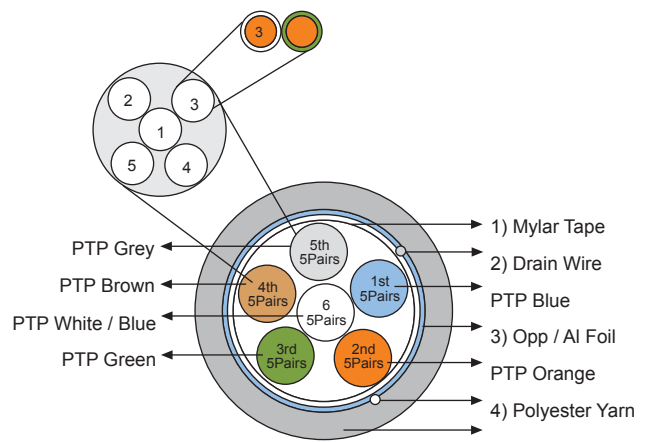
16 Pairs Construction



24 Pairs Construction



25 Pairs Construction



30 Pairs Construction

TELEPHONE CABLE

STP INDIVIDUAL PAIR SCREENED CABLE 120 Ω (IVFESA)

No. of Pair	SCREENED CONSTRUCTION									CHARACTERISTIC	
	CONDUCTOR		INSULATION		SCREENED	DRAIN WIRE		JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter No. / mm	Material	Diameter	Material	Material	Number / Wire Diameter No. / mm	Material	Diameter	Material		
		-	mm	-	-	No. / mm	-	mm	-	Ω (20°C)	MΩ-km
1	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	4.03	PVC	97.8	1000
2	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	6.66	PVC	97.8	1000
4	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	7.07	PVC	97.8	1000
8	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	10.09	PVC	97.8	1000
12	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	12.33	PVC	97.8	1000
16	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	13.76	PVC	97.8	1000
24	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	17.18	PVC	97.8	1000
25	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	17.38	PVC	97.8	1000

No. of Pair	SCREENED CONSTRUCTION									CHARACTERISTIC	
	CONDUCTOR		INSULATION		SCREENED	DRAIN WIRE		JACKET		Conductor Resistance (Max)	Insulation Resistance (Min)
	Number / Wire Diameter No. / mm	Material	Diameter	Material	Material	Number / Wire Diameter No. / mm	Material	Diameter	Material		
		-	mm	-	-	No. / mm	-	mm	-	Ω (20°C)	MΩ-km
1	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	4.03	PVC	97.8	1000
2	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	6.66	PVC	97.8	1000
4	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	7.07	PVC	97.8	1000
8	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	10.09	PVC	97.8	1000
12	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	12.33	PVC	97.8	1000
16	1 / 0.40	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	13.76	PVC	97.8	1000
24	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	17.18	PVC	97.8	1000
25	1 / 0.50	Tinned Cu.	0.93	HDPE	Opp / Al Foil	1 / 0.50	Tinned Cu.	17.38	PVC	97.8	10050

COLOUR CHART OF INSULATION

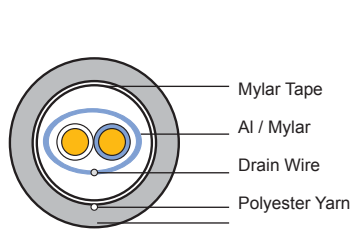
Pair No.	Insulation Colour		Pair No.	Insulation Colour	
	A Wire	B Wire		A Wire	B Wire
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Grey
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Red	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Grey
8	Red	Green	21	Voilet	Blue
9	Red	Brown	22	Voilet	Orange
10	Red	Grey	23	Voilet	Green
11	Black	Blue	24	Voilet	Brown
12	Black	Orange	25	Voilet	Grey
13	Black	Green			

COLOUR CHART OF BINDER TAPE

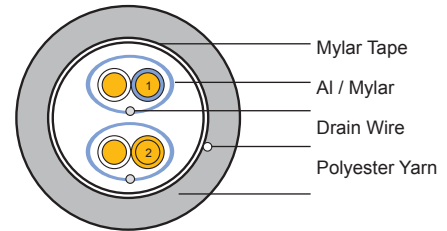
No. of Sub Unit	Binder Colour
1	Blue
2	Orange
3	Green
4	Brown
5	Grey

TELEPHONE CABLE

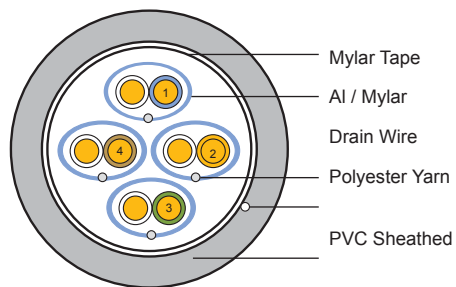
STP INDIVIDUAL PAIR SCREENED CABLE 120 Ω (IVFESA)



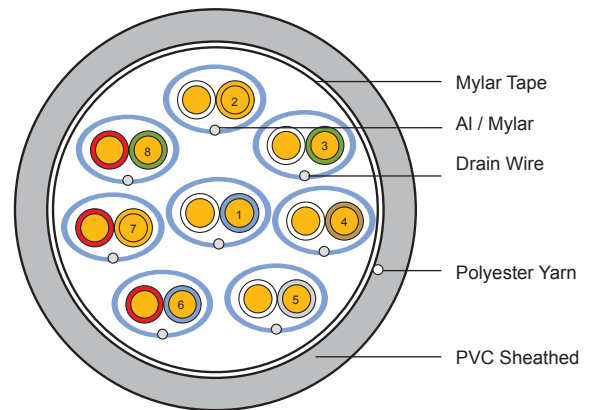
1 Pair Construction



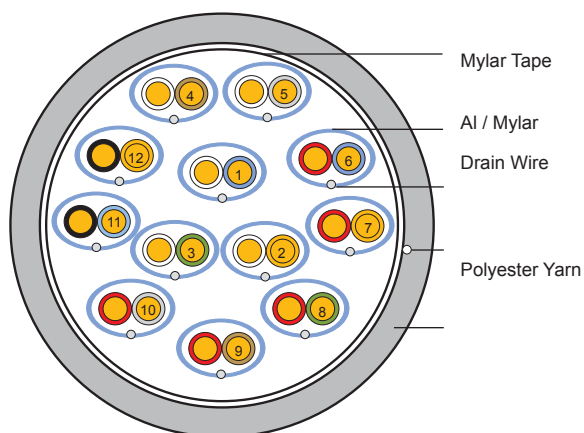
2 Pairs Construction



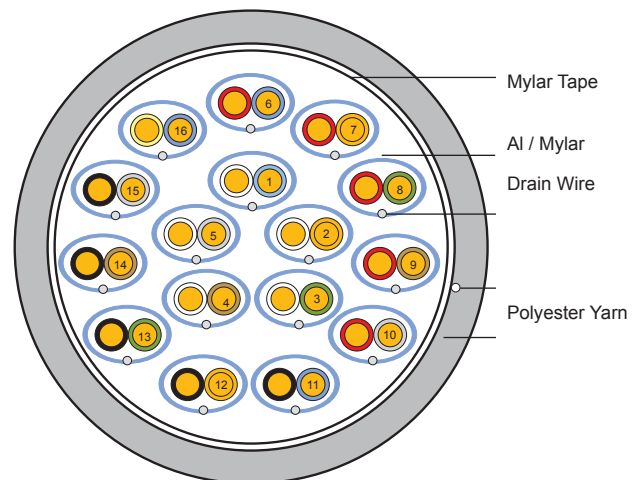
4 Pairs Construction



8 Pairs Construction



12 Pairs Construction



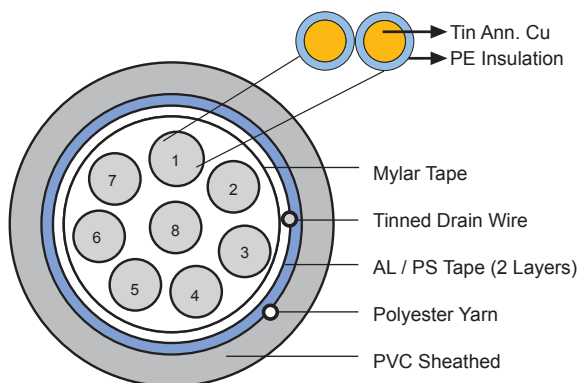
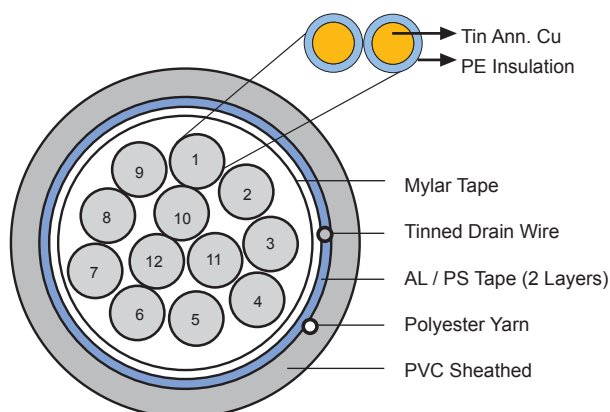
16 Pairs Construction

TELEPHONE CABLE

AC BUS CABLE (DOUBLE SCREENING)

No. of Pair	SCREENED CONSTRUCTION							
	CONDUCTOR		INSULATION		SCREENED	DRAIN WIRE	JACKET	
	Number / Wire Diameter	Material	Diameter	Material	Material	Number / Wire Diameter	Diameter	Material
	No. / mm	-	mm	-	-	mm	mm	-
2	1 / 0.26	Tinned Cu.	0.48	LDPE	2 Layer of Al / Mylar	0.26	2.62	PVC
4	1 / 0.26	Tinned Cu.	0.48	LDPE	2 Layer of Al / Mylar	0.26	3.13	PVC
8	1 / 0.26	Tinned Cu.	0.48	LDPE	2 Layer of Al / Mylar	0.26	3.84	PVC
12	1 / 0.26	Tinned Cu.	0.48	LDPE	2 Layer of Al / Mylar	0.26	5.29	PVC
25	1 / 0.26	Tinned Cu.	0.48	LDPE	2 Layer of Al / Mylar	0.26	6.63	PVC
2	1 / 0.40	Tinned Cu.	0.78	LDPE	2 Layer of Al / Mylar	0.40	4.48	PVC
4	1 / 0.40	Tinned Cu.	0.78	LDPE	2 Layer of Al / Mylar	0.40	5.33	PVC
8	1 / 0.40	Tinned Cu.	0.78	LDPE	2 Layer of Al / Mylar	0.40	6.59	PVC
12	1 / 0.40	Tinned Cu.	0.78	LDPE	2 Layer of Al / Mylar	0.40	7.53	PVC
25	1 / 0.40	Tinned Cu.	0.78	LDPE	2 Layer of Al / Mylar	0.40	9.66	PVC

No. of Pair	CHARACTERISTIC		
	Characteristic Impedance	Conductor Resistance (Max)	Insulation Resistance (Min)
	Ω	Ω (20°C)	M Ω -km
2	110	382	5000
4	110	382	5000
8	110	382	5000
12	110	382	5000
25	110	382	5000
2	110	157	500
4	110	157	500
8	110	157	500
12	110	157	500
25	110	157	500



TELEPHONE CABLE

AC BUS CABLE (DOUBLE SCREENING)

Pair No.	Colour	Marking	Marking Colour	
		Identification	1st Core	2nd Core
1	Light Blue	—	Red	
Black				
2	Light Pink	—	Red	
Black				
3	Light Green	—	Red	
Black				
4	Light Orange	—	Red	
Black				
5	Light Grey	—	Red	
Black				
6	Light Blue	--	Red	
Black				
7	Light Pink	--	Red	
Black				
8	Light Green	--	Red	
Black				
9	Light Orange	--	Red	
Black				
10	Light Grey	--	Red	
Black				
11	Light Blue	---	Red	
Black				
12	Light Pink	---	Red	
Black				
13	Light Green	---	Red	

TELEPHONE CABLE

DATA SPEED CABLE OVERALL SCREENED (AWM)

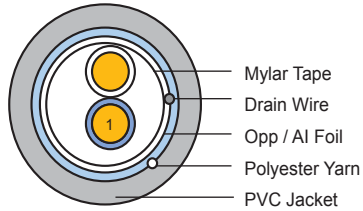
No. of Pair	SCREENED CONSTRUCTION							
	CONDUCTOR		INSULATION		SCREENED	DRAIN WIRE	JACKET	
	Number / Wire Diameter	Material	Diameter	Material	Material	Number / Wire Diameter	Diameter	Material
	No. / mm	-	mm	-	-	No. / mm	mm	-
1	7 / 0.20	Tinned Cu.	1.30	HDPE	Opp / Al Foil	7 / 0.20	4.51	PVC
2	7 / 0.20	Tinned Cu.	1.30	HDPE	Opp / Al Foil	7 / 0.20	7.11	PVC
4	7 / 0.20	Tinned Cu.	1.30	HDPE	Opp / Al Foil	7 / 0.20	8.59	PVC
6	7 / 0.20	Tinned Cu.	1.30	HDPE	Opp / Al Foil	7 / 0.20	11.91	PVC
12	7 / 0.20	Tinned Cu.	1.30	HDPE	Opp / Al Foil	7 / 0.20	17.92	PVC

No.	No. of Pair	CHARACTERISTIC		
		Spark Test	Conductor Resistance (Max)	Insulation Resistance (Min)
		KV AC	Ω (20°C)	M Ω -km
1	1	2	83.2	1000
2	2	2	83.2	1000
3	4	2	83.2	1000
4	6	2	83.2	1000
5	12	2	83.2	1000

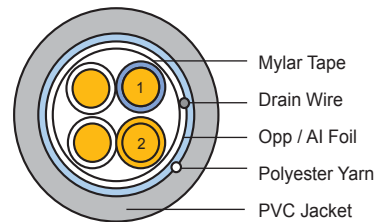
Pair No.	INSULATION COLOUR	
	1st Wire	2nd Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Grey
11	Black	Blue
12	Black	Orange

TELEPHONE CABLE

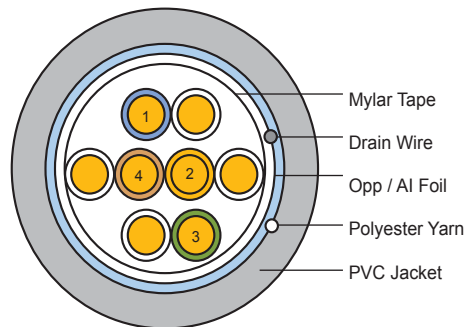
DATA SPEED CABLE OVERALL SCREENED (AWM)



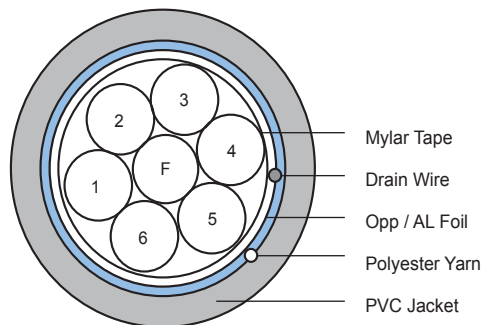
1 Insulated Pair



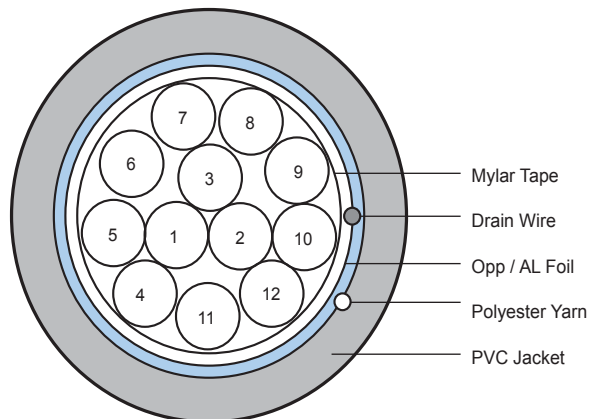
2 Insulated Pairs



4 Insulated Pairs



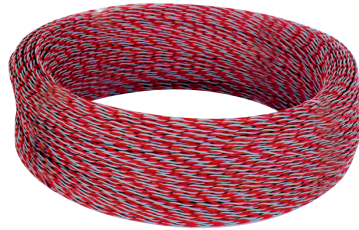
6 Insulated Pairs



12 Insulated Pairs

TELEPHONE CABLE

JUMPER WIRE (2Mb/S)



Conductor Res.at 20°C	Insulation Res. at 20°C
Max : Ω-km	Max : MΩ-km
Ω (20°C)	MΩ - km
97.8	100

UTP

No. Pair	Tinned Copper Diameter	Max. (mm)	Colour Identification	Insulation Material	Insulation Thickness	Overall Dia	Approx. Weight	Packing Length
	Nom. (mm)				Nom. (mm)		Kg / km	m / Coil
1 Pair	0.510	0.520	Dark Grey / Red	PE	0.21	1.86	4.74	250



Malaysia TMB SPEC. LINES A 1000	
Resistance Per km A + 20°C	
Nom : (Ω)	Max : (Ω)
89.55	91.40

CJV

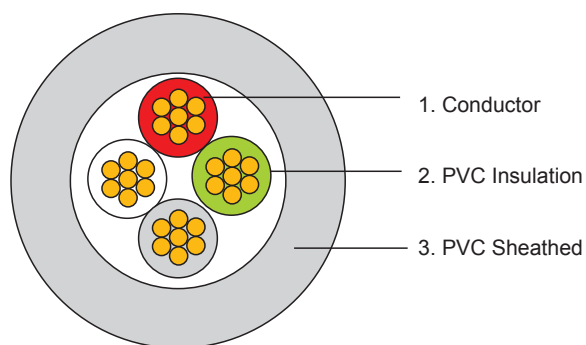
No. Pair	Tinned Copper Diameter		Colour Identification	Insulation Material	Insulation Thickness	Overall Dia	Approx. Weight	Packing Length
	Nom. (mm)	Max. (mm)			Nom. (mm)		Kg / km	m / Coil
1 wire	0.50	0.505	White	PVC	0.20	1.0	2.5	250
1 pair	0.50	0.505	White / Blue or	PVC	0.20	2.0	5.1	250
			White / Green					
3 wires	0.50	0.505	White / Green / Red	PVC	0.20	2.2	7.7	250
4 wires (Quad)	0.50	0.505	White / Green	PVC	0.20	10.2	10.2	250
			Red / Blue					
5 wires	0.50	0.505	White / Green	PVC	0.20	12.8	12.8	250
			Red / Blue / Grey					

TELEPHONE CABLE

PVC/PVC ALARM CABLE (CVS)

No.	Size		CONDUCTOR		INSULATION			SHEATH		CHARACTERISIC	
			Number / Wire Diameter	Material	Thk	Diameter	Material	Diameter	Material	Conductor Resistance (Tinned Cu.)	Conductor Resistance *(TCCA)
	mm ²	Formation	No. / mm	-	mm	mm	-	mm	-	Max ohm (20°C)	Max ohm (20°C)
1	0.14	7 / 0.16 x 4C	7 / 0.16	Tinned Cu. or TCCA	0.25	0.98	PVC	3.60	PVC	140	196
2	0.20	1 / 0.50 x 4C	1 / 0.50	Tinned Cu. or TCCA	0.25	1.00	PVC	4.00	PVC	91	128
3	0.22	7 / 0.20 x 4C	7 / 0.20	Tinned Cu. or TCCA	0.25	1.10	PVC	4.00	PVC	92	129

* TCCA: Tinned Copper Clad Aluminium



CABLE CONSTRUCTION

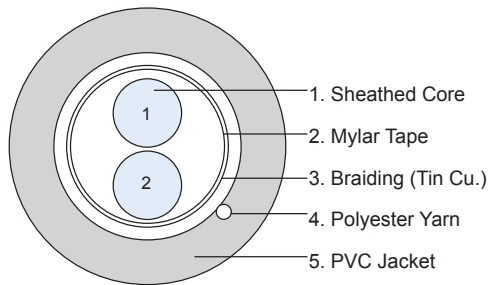
TELEPHONE CABLE

PVC/PVC SWITCHBOARD BRAIDED SCREENED CABLE (LSYCY)

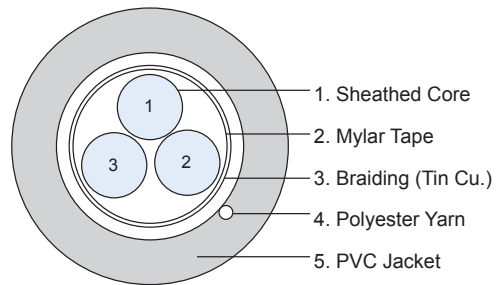
No.	Size		Construction									Characteristic
			Conductor		Insulation			Braiding		Sheath		Conductor Resistance
			Number / Wire Dia.	Material	Thk	Diameter	Material	Material	Coverage	Diameter	Material	
	mm ²	Formation	No. / mm	-	mm	mm	-	-	%	mm	-	Ω (20°C)
1.1	0.22	7/0.20 x 2C	7 / 0.20	Tinned Cu.	0.35	1.30	PVC	Tinned Cu.	95	4.58	PVC	81.86
1.2	0.22	7/0.20 x 4C	7 / 0.20	Tinned Cu.	0.35	1.30	PVC	Tinned Cu.	95	5.40	PVC	81.86
1.3	0.22	7/0.20 x 8C	7 / 0.20	Tinned Cu.	0.35	1.30	PVC	Tinned Cu.	95	6.66	PVC	81.86
1.4	0.22	7/0.20 x 12C	7 / 0.20	Tinned Cu.	0.35	1.30	PVC	Tinned Cu.	95	7.98	PVC	81.86
1.5	0.22	7/0.20 x 24C	7 / 0.20	Tinned Cu.	0.35	1.30	PVC	Tinned Cu.	95	10.66	PVC	81.86
2.1	0.50	16/0.20 x 2C	16 / 0.20	Tinned Cu.	0.65	2.22	PVC	Tinned Cu.	95	6.73	PVC	35.81
2.2	0.50	16/0.20 x 4C	16 / 0.20	Tinned Cu.	0.65	2.22	PVC	Tinned Cu.	95	7.78	PVC	35.81
2.3	0.50	16/0.20 x 8C	16 / 0.20	Tinned Cu.	0.65	2.22	PVC	Tinned Cu.	95	9.90	PVC	35.81
2.4	0.50	16/0.20 x 12C	16 / 0.20	Tinned Cu.	0.65	2.22	PVC	Tinned Cu.	95	11.64	PVC	35.81
2.5	0.50	16/0.20 x 24C	16 / 0.20	Tinned Cu.	0.65	2.22	PVC	Tinned Cu.	95	11.94	PVC	35.81
3.1	0.75	24/0.20 x 2C	24 / 0.20	Tinned Cu.	0.65	2.43	PVC	Tinned Cu.	95	7.38	PVC	23.88
3.2	0.75	24/0.20 x 3C	24 / 0.20	Tinned Cu.	0.65	2.43	PVC	Tinned Cu.	95	7.76	PVC	23.88
3.3	0.75	24/0.20 x 4C	24 / 0.20	Tinned Cu.	0.65	2.43	PVC	Tinned Cu.	95	8.63	PVC	23.88
3.4	0.75	24/0.20 x 6C	24 / 0.20	Tinned Cu.	0.65	2.43	PVC	Tinned Cu.	95	10.05	PVC	23.88
3.5	0.75	24/0.20 x 8C	24 / 0.20	Tinned Cu.	0.65	2.43	PVC	Tinned Cu.	95	11.09	PVC	23.88
3.6	0.75	24/0.20 x 10C	24 / 0.20	Tinned Cu.	0.65	2.43	PVC	Tinned Cu.	95	12.78	PVC	23.88
4.1	1.00	32/0.20 x 2C	32 / 0.20	Tinned Cu.	0.65	2.61	PVC	Tinned Cu.	95	7.77	PVC	17.91
4.2	1.00	32/0.20 x 3C	32 / 0.20	Tinned Cu.	0.65	2.61	PVC	Tinned Cu.	95	8.28	PVC	17.91
4.3	1.00	32/0.20 x 4C	32 / 0.20	Tinned Cu.	0.65	2.61	PVC	Tinned Cu.	95	8.95	PVC	17.91
5.1	1.50	30/0.25 x 1P	30 / 0.25	Tinned Cu.	0.70	2.98	PVC	Tinned Cu.	95	8.62	PVC	12.24
5.2	1.50	30/0.25 x 4P	30 / 0.25	Tinned Cu.	0.70	2.98	PVC	Tinned Cu.	95	12.42	PVC	12.24
5.3	1.50	30/0.25 x 2C	30 / 0.25	Tinned Cu.	0.70	2.98	PVC	Tinned Cu.	95	8.62	PVC	12.24
5.4	1.50	30/0.25 x 4C	30 / 0.25	Tinned Cu.	0.70	2.98	PVC	Tinned Cu.	95	10.06	PVC	12.24
5.5	1.50	30/0.25 x 5C	30 / 0.25	Tinned Cu.	0.70	2.98	PVC	Tinned Cu.	95	11.01	PVC	12.24
6.1	2.50	50/0.25 x 2C	50 / 0.25	Tinned Cu.	0.75	3.54	PVC	Tinned Cu.	95	9.75	PVC	7.344
6.2	2.50	50/0.25 x 3C	50 / 0.25	Tinned Cu.	0.75	3.54	PVC	Tinned Cu.	95	10.39	PVC	7.344
7.1	4.00	56/0.30 x 2C	56 / 0.30	Tinned Cu.	0.75	4.09	PVC	Tinned Cu.	95	10.95	PVC	4.469

TELEPHONE CABLE

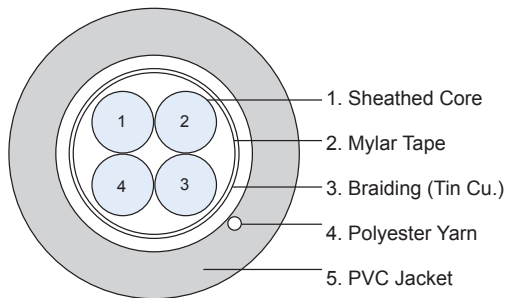
PVC/PVC SWITCHBOARD BRAIDED SCREENED CABLE (LSYCY)



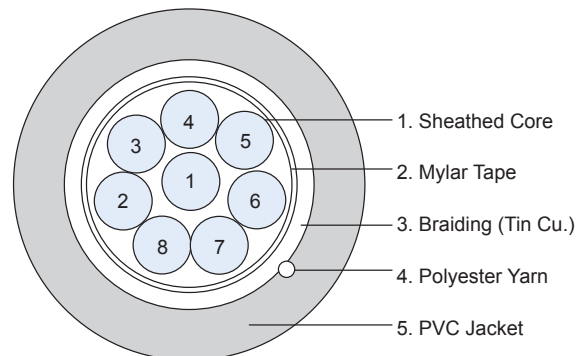
2 Cores or 1 Pair



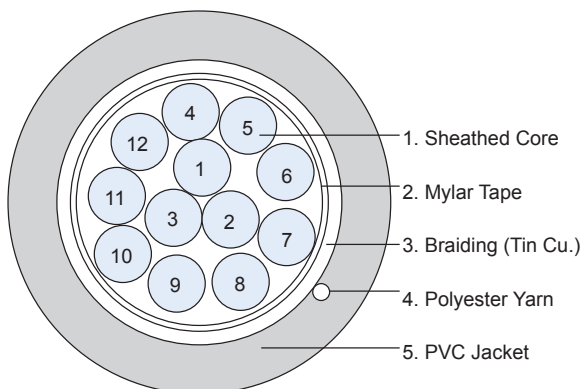
3 Cores



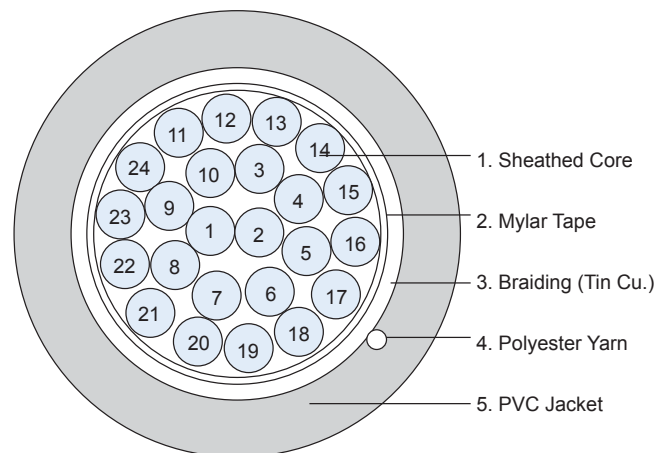
4 Cores or 2 Pair



8 Cores



12 Cores



24 Cores