

**POLYETHYLENE INSULATED, 25-PAIR UNIT TWIN, MOISTURE BARRIER SHEATHED CABLE
TELEPHONE CABLE P.E.U.T.F.S. TO TMB SPEC. CL 0522**

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 twisted together to form a pair

STRANDING UNIT

25 pairs

LAIID-UP

Unit 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 polyethylene

ELECTRICAL CHARACTERISTICS

Size	Conductor resistance at 20°C		Mutual capacitance	Capacitance unbalance		Insulation resistance	Dielectric strength	
	Max. average	Max. for 90% of cases	Max. average	* Pair-to-pair	Pair-to-ground		Min.	Conductor to conductor
	ohm/km	ohm/km	nF/km	Max.	Max. ave.	Mohm. km		
0.40	143	150	52 ± 2	200	574	10,000	600	4000
0.50	91	96	52 ± 2	200	574	10,000	600	4000
0.63	58	60	52 ± 2	200	574	10,000	600	4000
0.90	28	30	52 ± 2	200	574	10,000	600	4000

* The measured values shall be divided by $\frac{1}{2} \left(\frac{L}{500} + \sqrt{\frac{L}{500}} \right)$

where L is the length in meter of the cable under test.
Length less than 100 meters are considered as 100 meters

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CONSTRUCTION DATA

Conductor		PE	Cable	Approx. weight	Packing length
Size	No. of pairs	Sheath thickness	Overall diameter		
mm	pr	mm	mm	kg/km	m/drum
0.40	100	2.1	18.0	400	1000
0.40	200	2.1	22.9	710	1000
0.40	400	2.3	30.6	1320	1000
0.40	600	2.4	36.4	1910	1000
0.40	800	2.5	41.4	2510	1000
0.40	1000	2.8	46.2	3120	500
0.40	1200	3.0	50.9	3720	500
0.40	1400	3.1	54.1	4300	500
0.40	1600	3.2	57.5	4890	500
0.40	2000	3.3	63.6	6030	500
0.40	2400	3.4	69.1	7170	250
0.50	100	2.1	21.1	570	1000
0.50	200	2.2	27.3	1040	1000
0.50	400	2.4	36.8	1970	1000
0.50	600	2.5	44.0	2870	1000
0.50	800	3.0	50.9	3820	500
0.50	1000	3.1	56.3	4720	500
0.50	1200	3.2	61.1	5600	500
0.50	1400	3.3	65.6	6490	250
0.63	100	2.2	25.2	850	1000
0.63	200	2.3	32.9	1570	1000
0.63	400	2.5	44.7	3000	1000
0.63	600	3.1	54.6	4470	500
0.63	800	3.2	62.1	5850	500
0.63	1000	3.4	68.9	7260	250
0.90	100	2.3	34.1	1610	1000
0.90	200	2.8	45.9	3100	500

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COLOUR SCHEME FOR PAIRS WITHIN 25 PAIR UNIT

Pair number	Colour of conductor insulation		Pair number	Colour of conductor insulation	
	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	Blue	19.	Yellow	Brown
7.	Red	Orange	20.	Yellow	Grey
8.	Red	Green	21.	Violet	Blue
9.	Red	Brown	22.	Violet	Orange
10.	Red	Grey	23.	Violet	Green
11.	Black	Blue	24.	Violet	Brown
12.	Black	Orange	25.	Violet	Grey
13.	Black	Green			

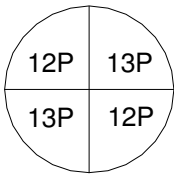
BINDER TAPE FOR CABLE UP TO 600 PAIRS

25 Pair group number	Group pair count	Colour of group identification tapes	25 Pair group number	Group pair count	Colour of group identification tapes
1.	1 - 25	White - Blue	13.	301 - 325	Black - Green
2.	26 - 50	White - Orange	14.	326 - 350	Black - Brown
3.	51 - 75	White - Green	15.	351 - 375	Black - Grey
4.	76 - 100	White - Brown	16.	376 - 400	Yellow - Blue
5.	101 - 125	White - Grey	17.	401 - 425	Yellow - Orange
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 - Grey
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

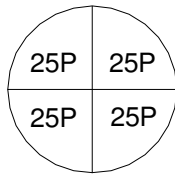
BINDER TAPE FOR CABLE MORE THAN 600 PAIRS

Multiple units of	Pair count	Colour of multiple unit Group identification tapes
1 st 24 groups	1 - 600	White
2 nd 24 groups	601 - 1200	Red
3 rd 24 groups	1201 - 1800	Black
4 th 24 groups	1801 - 2400	Yellow

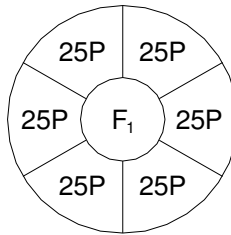
CABLE MAKE-UP



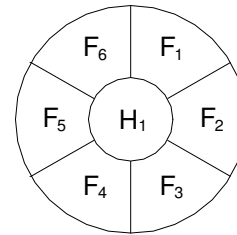
50 Pairs (Unit F)



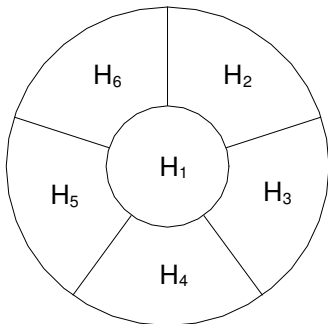
100 Pairs (Unit H)



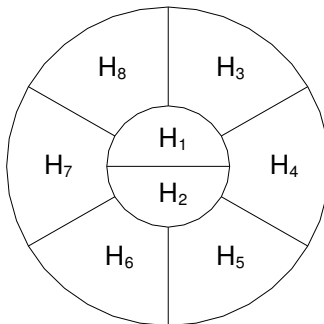
200 Pairs



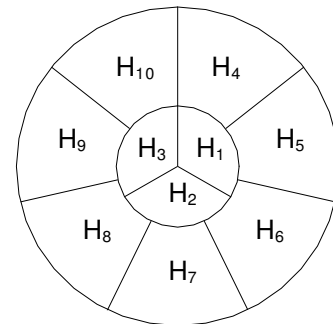
400 Pairs



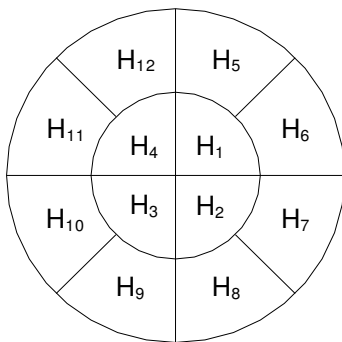
600 Pairs



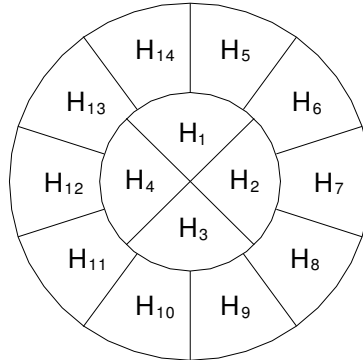
800 Pairs



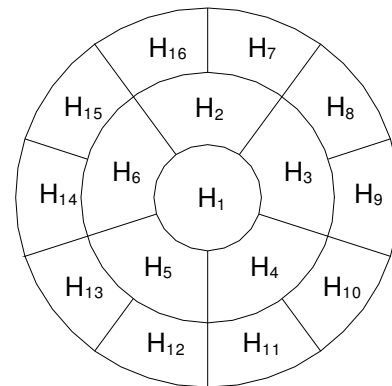
1,000 Pairs



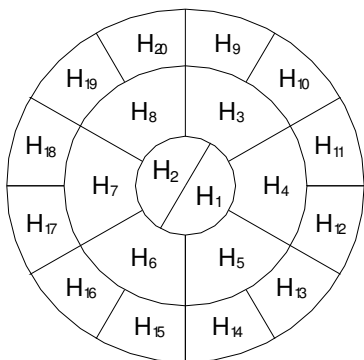
1,200 Pairs



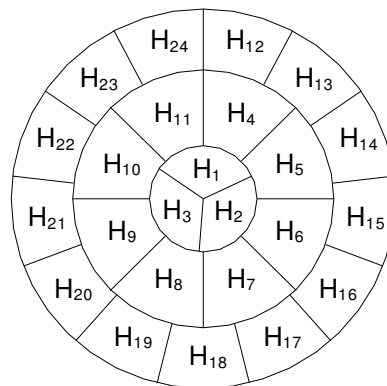
1,400 Pairs



1,600 Pairs



2,000 Pairs



2,400 Pairs