

JOINTING OF LEAD-SHEATHED CABLES

Lead Sleeve Sizes

1. **General.** Tables 1 to 9 show the lead sleeves which should be used when jointing lead-sheathed cables. Table 10 lists in numerical order all the sizes of lead sleeves and given their dimensions.

2. Larger sleeves than those quoted may be required at loading points, junctions with spur cables, etc. Slight variations in length and/or diameter are permissible if it is necessary to meet unusual conditions, e.g. to facilitate the accommodation of a joint in a difficult position in a jointing chamber, but such changes should be confined as far as possible to audio cables.

*TABLE 1. LEAD SLEEVES FOR P.C.U.T. CABLES

Cable size (No. of pairs)	Sleeves, Lead, No. ...		
	0.4 mm (4 lb.)	0.5 mm (6½ lb.)	0.63 mm (10 lb.)
30	-	-	10
50	-	-	10
100	-	12	-
150	16	16	16
200	16	16	16
250	16	35	35
300	35	35	35
400	35	36	36
500	36	36	20
600	36	20	38
800	20	39	39
1,000	39	41	-
1,200	24	33	-
1,400	33	-	-
1,800	33	-	-

(Table 2 follows)

TABLE 2. LEAD SLEEVES FOR P.C.Q.L. CABLES

Cable size (No. of pairs)	Sleeves, Lead, No. ...	
	0.63 mm (10 lb.)	0.9 mm (20 lb.)
14	-	10
20	9	10
28	10	10
38	10	12
54	10	12
74	12	16
100	12	16
150	16	35
200	16	36
250	35	36
300	36	38
400	36	38
500	20	39
540	-	33
600	38	-
800	39	-
1,000	41	-
1,100	33	-

(Table 3 follows)

TABLE 4. LEAD SLEEVES FOR COMPOSITE P.C.Q.T. CABLES

4 S.P. 1.27 mm (40 lb.) + n pr. 0.63 mm (10 lb.), 0.9 mm (20 lb.) or 1.27 mm (40 lb.)

Cable size (No. of pairs)			Sleeves Lead, No. ...
1.27 mm (40 lb.) + 0.63 mm (10 lb.)	1.27 mm (40 lb.) + 0.9 mm (20 lb.)	1.27 mm (40 lb.) + 1.27 mm (40 lb.)	
4 S.P. + 100	4 S.P. + 34	4 S.P. + 26	16
-	-	4 S.P. + 64	16
-	4 S.P. + 80	-	16
4 S.P. + 248	4 S.P. + 138	4 S.P. + 114	19
4 S.P. + 340	-	-	19
4 S.P. + 444	-	4 S.P. + 176	20
-	4 S.P. + 208	-	36
4 S.P. + 560	-	4 S.P. + 250	42
-	4 S.P. + 290	-	37
4 S.P. + 688	-	-	40
-	4 S.P. + 384	-	42
4 S.P. + 828	-	-	33
-	4 S.P. + 490	-	40
4 S.P. + 980	-	-	33

TABLE 5. LEAD SLEEVES FOR COMPOSITE P.C.Q.T. CABLES

8 S.P. 1.27 mm (40 lb.) + n pr. 0.9 mm (20 lb.) or 1.27 mm (40 lb.)

Cable size (No. of pairs)		Sleeves Lead, No. ...
1.27 mm (40 lb.) + 0.9 mm (20 lb.)	1.27 mm (40 lb.) + 1.27 mm (40 lb.)	
8 S.P. + 44	8 S.P. + 34	16
8 S.P. + 100	8 S.P. + 80	19
8 S.P. + 168	8 S.P. + 138	20
8 S.P. + 248	8 -	22
8 S.P. + 340	8 S.P. + 208	42
8 S.P. + 444	-	40

TABLE 6. LEAD SLEEVES FOR P.C.Q. CARRIER CABLES

Cable Size (No. of pairs and weight of conductor)	Sleeves, Lead, No. ...
14 pr. 1.27 mm (40 lb.)	10
24 pr. 1.27 mm (40 lb.)	12
8 pr. 1.2 mm (36 lb.)	10
14 pr. 1.2 mm (36 lb.)	15
24 pr. 1.2 mm (36 lb.)	43

TABLE 3. LEAD SLEEVES FOR P.C.Q.T. CABLES

Cable size (No. of pairs)	Sleeves, Lead, No. ...		
	0.63 mm (10 lb.)	0.9 mm (20 lb.)	1.27 mm (40 lb.)
2	-	-	9
6	-	-	9
8	-	-	10
14	9	10	10
24	9	10	12
28	9	10	12
38	10	12	12
54	10	12	16
60	12	12	16
74	12	43	16
96	12	16	19
104	12	16	19
122	12	16	19
150	16	19	19
160	16	19	36
182	16	19	20
216	16	19	42
228	16	19	42
254	19	36	42
294	-	36	-
308	19	20	-
338	-	20	-
384	19	42	-
400	19	42	-
434	-	42	-
486	-	40	-
504	20	40	-
542	-	40	-
620	42	-	-
748	40	-	-
888	33	-	-
1,040	33	-	-

(Table 4 follows)

TABLE 7. LEAD SLEEVES FOR 1.2/4.4A (174A)-TYPE COAXIAL CABLES

No. of coaxial pairs	No. of paper-core pairs			Sleeves, Lead, No. ...
	Centre and/or interstice pairs 0.63 mm (10 lb.)		Layer pairs P.C.Q.T. 0.9 mm (20 lb.)	
	P.C.Q.	P.C.T.		
2	4	-	-	15
2	4	-	28	44
2	4	-	68	45
2	4	-	120	19
2	4	-	184	22
2	4	-	260	33
2	4	-	348	23
2	4	-	448	33
4	-	5	-	43
4	-	5	32	44
4	-	5	76	47
4	-	5	132	19
4	-	5	200	22
4	-	5	280	23
4	-	5	372	24
4	-	5	476	33
6	-	7	-	16
6	-	7	38	45
6	-	7	88	19
6	-	7	150	22
6	-	7	224	25
6	-	7	310	24
6	-	7	408	33
8	-	10	-	16
8	-	10	44	45
8	-	10	100	19
8	-	10	168	22
8	-	10	248	23
8	-	10	340	24
8	-	10	444	33
12	-	15	-	19
16	-	20	-	24
28	-	35	-	33

(Table 8 follows)

TABLE 8. LEAD SLEEVES FOR 2.6/9.5 mm (375)-TYPE COAXIAL CABLES

No. of coaxial pairs	No. of paper-core pairs				Sleeves, Lead, No. ...
	Interstice (see Notes 1, 2 & 3)		Layer		
	P.C.Q. 0.9 mm (20 lb.)	P.C.T. 0.9 mm (20 lb.)	P.C.Q.T. 0.9 mm (20 lb.)	P.C.Q. 1.27 mm (40 lb.) Carrier	
1	-	-	-	-	9
1	-	-	26	-	12
1	-	-	64	-	16
1	-	-	176	-	36
1	-	-	-	24	16
2	16	-	-	-	21
2	16	-	48	-	21
2	16	-	108	-	22
2	16	-	180	-	42
2	16	-	264	-	42
2	16	-	360	-	24
2	16	-	468	-	33
4	2	16	-	-	21
4	2	16	54	-	22
4	2	16	120	-	42
4	2	16	198	-	40
4	2	16	288	-	24
4	2	16	390	-	33
4	-	-	-	-	33
6	32	-	-	-	22
6	32	-	66	-	42
6	32	-	148	-	23
6	32	-	240	-	24
6	32	-	344	-	33
8	64	-	-	-	42
8	64	-	288	-	33

- NOTE 1. In 2-coaxial-pair cables, 16 pair 20 interstice pairs can be replaced by 2 S.P. 40 + 8 pair 20 P.C.Q. without changing lead sleeve sizes.
- NOTE 2. In 4-coaxial-pair cables, 16 pair 20 P.C.T. & 2 pair 20 P.C.Q. can be replaced by 4 S.P. 25 + 2 pair 20 P.C.Q. without changing lead sleeve sizes.
- NOTE 3. In 6-coaxial-pair cables, 32 pair 20 P.C.Q. can be replaced by 4 S.P. 25 + 12 pair 20 P.C.Q. without changing lead sleeve sizes.

(Table 9 follows)

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TABLE 9. LEAD SLEEVES FOR 6.4/24.8B (975)-TYPE COAXIAL CABLES

No. of coaxial pairs		No. of paper-core pairs					Sleeves, Lead, No. ...
6.35/24.765 (975) type	2.6/9.5 (375) type	Interstice				Layer	
		S.P. 1.27 mm (40 lb.)	P.C.Q. 0.9 mm (20 lb.)	P.C.T. 0.9 mm (20 lb.)	P.C.Q. 1.27 mm (40 lb.)	P.C.Q.T. 0.9 mm (20 lb.)	
1	-	-	-	-	-	-	12
2	-	8	-	-	48	-	22
3	-	6	-	-	-	76	22
2	4	8	2	16	16	-	23

TABLE 10. DIMENSIONS OF LEAD SLEEVES

Sleeves, Lead, No. ...	Dimensions mm and (in.)		Thickness of lead mm and (in.)
	Length	Diameter (internal)	
9	300 (12)	25 (1.0)	2.5 (0.09)
10	300 (12)	38 (1.5)	3.5 (0.125)
12	380 (15)	50 (2.0)	3.5 (0.125)
15	460 (18)	38 (1.5)	3.5 (0.125)
16	535 (21)	64 (2.5)	4.0 (0.15)
19	610 (24)	76 (3.0)	4.0 (0.15)
20	610 (24)	90 (3.5)	4.5 (0.17)
21	685 (27)	76 (3.0)	4.0 (0.15)
22	685 (27)	90 (3.5)	4.5 (0.17)
23	760 (30)	102 (4.0)	4.5 (0.17)
24	760 (30)	114 (4.5)	4.5 (0.17)
25	760 (30)	76 (3.0)	4.0 (0.15)
33	760 (30)	128 (5.0)	4.5 (0.17)
34	760 (30)	152 (6.0)	5.0 (0.2)
35	460 (18)	76 (3.0)	4.0 (0.15)
36	535 (21)	90 (3.5)	4.5 (0.17)
37	535 (21)	102 (4.0)	4.5 (0.17)
38	610 (24)	102 (4.0)	4.5 (0.17)
39	610 (24)	114 (4.5)	4.5 (0.17)
40	685 (27)	114 (4.5)	4.5 (0.17)
41	685 (27)	128 (5.0)	4.5 (0.17)
42	685 (27)	102 (4.0)	4.5 (0.17)
43	460 (18)	50 (2.0)	3.5 (0.125)
44	610 (24)	50 (2.0)	3.5 (0.125)
45	610 (24)	64 (2.5)	4.0 (0.15)

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