

## SELECTION OF STANDARD COPPER AND LIGHTGUIDE CENTRAL OFFICE CABLES GENERAL EQUIPMENT REQUIREMENTS

CONTENTS	PAGE	1. GENERAL
1. GENERAL . . . . .	1	<p>1.01 This practice covers the general requirements for the selection of standard copper and lightguide central office cables. It includes a list of the coded cables recommended for general use, together with a brief description of each cable. The object of this practice is to encourage standardization and to keep to a minimum the number of cables required.</p> <p>(a) In general, the design engineer should specify only the basic wiring requirements and not the specific codes of any cables, unless the codes are a requirement. The basic wiring requirements would include the type of wire, the gauge, pairing, separation, special twist, or any other necessary engineering requirements. It should be left to the equipment manufacturer, with the approval of the designer, to pick the codes that best meet the above requirements.</p> <p>(b) For a description of types of coded wire and their uses, consult Practice 800-610-152.</p>
2. GENERAL REQUIREMENTS . . . . .	2	
A. Distributing Frames . . . . .	2	
B. Fuse Bays . . . . .	2	
C. Relay Racks . . . . .	2	
3. CABLE DATA—GENERAL . . . . .	3	
A. Standard Copper Central Office Cables . . . . .	3	
Cable Covering . . . . .	3	
Unshielded Cables . . . . .	3	
Shielded Cables . . . . .	3	
Coaxial Cables . . . . .	4	
B. Lightguide Central Office Cables . . . . .	4	
Description . . . . .	4	
Installation Requirements . . . . .	4	
4. CABLE DATA—SPECIFIC . . . . .	5	<p>1.02 This section is reissued to bring the information it contains into agreement with the latest practices. Since this reissue covers a general revision, the arrows ordinarily used to indicate changes have been omitted.</p> <p>1.03 The requirements covered in this section shall be followed, except as modified by applicable specifications and drawings.</p> <p>1.04 The practices listed below contain supplementary wiring and cabling requirements and, where applicable, are referred to in other parts of this practice.</p> <p>005-150-101—Wiring Symbols, Wiring Abbreviations, and Definitions</p> <p>800-610-152—Gauge and Insulation of Wire</p>
A. Standard Copper Central Office Cables . . . . .	5	
Arrangement of Tables . . . . .	5	
Checking List for Tables . . . . .	5	
B. Lightguide Central Office Cables . . . . .	5	
5. INDEX OF STANDARD COPPER CENTRAL OFFICE CABLES . . . . .	5	

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- 800-612-150—Specific Requirements for Electronic-Type Equipment
- 800-612-151—Design of Cable Forms
- 800-612-153—Stripping and Butting Cables
- 800-612-154—Connecting and Soldering Individual Conductors
- 800-612-156—Placing, Securing, and Supporting Cable Forms
- 800-612-157—Protection of Cable Forms and Skinners
- 800-612-158—Splicing Switchboard and Lead-Covered Cables, Local Cables, and Individual Conductors
- 800-612-160—Dressing of Skinners
- 800-612-161—Color Combinations and Uses
- 800-612-163—Specific Requirements for Crossbar-Type Equipment
- 800-612-164—Forming, Grounding, Splicing, and Terminating Shielded Wiring
- 800-612-165—Dressing of Skinners—Power Plant Apparatus
- 800-614-152—Switchboard, Power, and Local Power Cables
- 802-005-180—Assembly and Installation of Power Plant Bus Bar and Wiring

**2. GENERAL REQUIREMENTS**

**2.01** In selecting large cables to be spread over several equipment units, consideration should be given to the amount of stripper that can be handled conveniently.

**2.02** Another consideration in selection of large cables is the necessity of isolating certain leads. These leads are marked C, C2, or C5 on the circuit schematic drawings, depending upon the degree of separation required. For definitions of C, C2, and C5 wiring, see Practice 005-150-101. For detailed requirements on segregation of C, C2, and C5 wiring, see Practice 800-612-153.

**2.03** Leads of different potentials may be run in the same cable, providing the conductors used for circuits of different voltages or with potential on both sides of ground are insulated for the maximum potential difference in the cable. Practice 800-610-152 lists the maximum operating voltages, both ac and dc, for central office wiring. The voltages listed are intended to be the maximum voltages between wires or to ground in the circuits using these wires. It is not the intention to permit double the listed voltage between two wires of a pair.

**2.04** Spare pairs are no longer provided except in 69R and 262R cables.

**2.05** In specifying cables by code numbers, certain codes may be found to be rated Mfr Disc and replaced by other codes. The conductor cable arrangement of the replacing cable may sometimes be different from that of the original cable. When it is necessary to splice two such cables together, the conductors are spliced in the order of the color sequence in each cable. The splicing of different gauge conductors should be avoided except where the latest requirements call for a smaller gauge conductor than originally furnished.

**2.06** The AT&T Technologies, Inc apparatus card catalog will indicate the currently available vintage of the cable type, eg 812R3. When listing cable codes on drawings and specifications, the numerals following the letter shall be omitted so as to avoid the necessity of changing them each time a cable type vintage changes.

**A. Distributing Frames**

**2.07 *Horizontal Side:*** The leads from one cable may be spread over a maximum of 120 inches. A cable entering the horizontal side from the vertical side, either from above or below, should be butted approximately at the center of the group of terminal strips served or per applicable systems method of cabling drawings.

**2.08 *Vertical Side:*** A cable may be formed over an entire vertical or any portion of it, as required.

**B. Fuse Bays**

**2.09** A cable may be formed over any number of fuse panels in one bay, regardless of whether or not the panels are adjacent.

**C. Relay Racks**

**2.10** The leads from one cable may be formed over one or more groups of mounting plates or relay rack units, but should not be spread over more than one relay rack bay except for the following:

- (a) Cables employing type DP wire (such as all R types) may be formed over five adjacent bays or the equivalent. In such cases, the cable

should be butted on the cable rack near the center of the group and the leads run as loose wires.

(b) For bay-wired equipments having terminal strips and associated fanning rings or suitable carrying devices at the top of the bay, cables employing other than type DP wire (except cables containing shielded pairs) may be formed over more than one bay. For such equipments, one cable may be formed over five adjacent bays or the equivalent. It is usually preferable to butt the cable at the center bay of the group.

### 3. CABLE DATA—GENERAL

#### A. Standard Copper Central Office Cables

##### Cable Covering

**3.01** A light olive gray polyvinyl chloride (PVC) jacket is used, unless otherwise specified.

##### Unshielded Cables

**3.02** Most cables consist of twisted pairs or twisted pairs and singles with a few cables having triples and a few consisting of quads (multiple twin pairs).

**3.03** *A-type cables*, prefixed by numbers below 300 plus 301A, 302A, and 736A, employ No. 22 or 24 gauge-type BU wire. These conductors are tin-coated copper and have PVC insulation.

**3.04** *R-type cables* employ No. 20, 22, 24, and 26 gauge-type DP wire. These conductors are tin-coated copper and have irradiated polyvinyl chloride (IPVC) insulation. R-type cables are coded from the 20Rs through the 500Rs.

**3.05** *454B, 456B through 459B cables* employ No. 16 gauge-type AM wire. These conductors are tin-coated copper and have PVC insulation with the same color code as R cables.

**3.06** *741A, 742A, 745A through 747A cables* employ type BY wire pairs with 0.5-inch twist length. These conductors are No. 26 gauge tin-coated copper and have PVC insulation.

**3.07** *800A and up cables* employ No. 26 gauge-type BY wire. These conductors are tin-coated copper and have PVC insulation.

##### Shielded Cables

**3.08** *AS-type cables* provide an overshield of No. 34 AWG tin-coated copper-wire braided shield over A-type cables. The shielded cable is covered with an outer jacket of light olive gray PVC.

**3.09** *479R cable* consists of 4 pairs of No. 22 gauge tin-coated copper conductors of DP wire with IPVC insulation. Each pair is enclosed in a braided, tinned copper wire shield. The shielded pairs are stranded together and covered with a light olive gray PVC jacket.

**3.10** *606B through 612B cables* consist of twisted pairs of No. 22 gauge tin-coated copper conductors. The conductor insulation is polyethylene-polyvinyl chloride (PEPVC). The cable is covered with a bonded Alvyn (aluminum-PVC) sheath. The PVC outer jacket is dark gray. These cables are designed for central office applications where shielding is required in high-frequency circuits.

**3.11** *750-type cables* (750 to 759 series except 754) employ conductors of polyethylene-insulated wire twisted into pairs. Each pair is shielded with a tin-coated copper braid. The PVC outer jacket is light olive gray.

**3.12** *754E cable* consists of a twisted pair of polyethylene-insulated No. 19 gauge conductors, one blue and one white. The conductors are filled to a circular cross section with an additional layer of polyethylene natural color and then covered with two No. 34 AWG silver-coated copper-wire braided shields, one applied snugly over the other. The two shields are covered with an outer jacket of black PVC.

**3.13** *760A cable* consists of a twisted pair of polyethylene-insulated No. 22 gauge conductors, one blue and one white. The conductors are filled to circular cross section with an additional layer of polyethylene natural color, and then covered with two No. 34 AWG silver-coated copper-wire braided shields, one applied snugly over the other. The two shields are covered with an outer jacket of light olive gray PVC.

**3.14** *761A1 through 761A17 cables* consist of a twisted pair of polyethylene-insulated No. 24 gauge tin-coated copper conductors in various color

combinations. Each pair is covered by two No. 34 gauge, tin-coated, braided, copper-wire shields which are enclosed by an outer jacket of gray PVC.

**3.15 762A cable** consists of ten 761A (761A1 through 761A10) type cables enclosed in a plastic jacket.

**3.16 763A cable** consists of 12 shielded pairs of No. 24 gauge BF wire. The outer jacket is light olive gray PVC.

**3.17 764A cable** consists of eight 761A (761A1 through 761A8) type cables enclosed in a plastic jacket.

**Coaxial Cables (Nominal 75-Ohm Impedance)**

**3.18 724B and 727A cables** have a No. 20 gauge copper center conductor. The dielectric material is ivory PVC. The outer conductor consists of a double braid of tin-coated copper wire. An outer jacket of polyethylene is also applied over the outer conductor. The 724 and 727A cables are similar except that the 727A is corona-free to 3500 volts rms. The 727A cable has a longitudinal red rayon tracer under the jacket for identification purposes.

**3.19 726 cable** has a No. 20 gauge nichrome center conductor. The dielectric material is solid polyethylene. The outer conductor consists of two braids of copper wire. An outer jacket of brown polyethylene is also applied over the outer conductor.

**3.20 728A cable** has a 0.0311-inch copper center conductor. The dielectric material is solid polyethylene. The outer conductor consists of a double braid of tin-coated copper wire. An outer jacket of slate PVC is also applied over the outer conductor. It is corona-free to 3500 volts rms.

**3.21 729A cable** is a flexible coaxial cable intended for emergency patching. It consists of a No. 20 gauge copper center conductor. The dielectric material is solid polyethylene. The outer conductor consists of a double braid of tin-coated copper wire. An outer jacket of black PVC is also applied over the outer conductor. A triangular ridge is formed longitudinally on the outer surface of the jacket for identification purposes. It is corona-free to 3500 volts rms.

**3.22 730B cable** is a flexible coaxial cable consisting of a No. 23 gauge solid copper covered steel center conductor, covered with natural color polyethylene. The outer conductor consists of a double braid of tin-coated copper wire. The outer jacket is ivory PVC.

**3.23 731B cable** is the same as the 730 cable except that it has an outer jacket of slate PVC.

**3.24 732A cable** consists of ten 730B cables enclosed in a PVC jacket.

**B. Lightguide Central Office Cables**

**Description**

**3.24** Lightguide cables for interconnecting central office equipment contain one or more single fiber cables. Each single fiber cable consists of a coated Kevlar\* yarn and an outer PVC jacket.

**3.25** Construction details of lightguide central office cables are listed in Table R.

**Installation Requirements**

**3.26** Single fiber and duplex lightguide cables run on cable racks shall be segregated from copper central office cables to avoid placement of copper cables on top of lightguide cables.

**3.27** The bending radius for single fiber and duplex cables shall be no less than 1.5 inches after installation unless otherwise stated in the application documentation. Minimum bending radius for installed quad cables shall be 4.0 inches.

**3.28** Lightguide interconnection cables shall not be sewn into cable forms. Where it is necessary to secure the cables in order to hold them in place or information they may be taped to adjacent cabling, or they may be tied with twine to framework details. However, where the cables are to be tied, they shall be protected from contact with the twine and the metalwork by wrapping the cables with RM-583101, 1/64-inch thick sheet fiber. Although protected, the cables shall not be tied so tightly as to cause the fiber protection to deform the cables

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since deformation of the cables could adversely affect the transmission characteristics of the glass fibers.

**3.29** Lightguide cables that are kinked or otherwise damaged during handling or installation shall be replaced. Damaged cables should be discarded promptly to avoid accidental reuse.

**4. CABLE DATA—SPECIFIC**

**A. Standard Copper Central Office Cable**

**Arrangement of Tables**

**4.01** The standard copper central office cables are listed in tables in conductor gauge groupings. These tables include those cables from which selections should be made for equipment cabling. A separate table has been assigned to each conductor gauge grouping.

**4.02** In each group the cables are listed according to the number of conductors, beginning with the cable having the smallest number of conductors. Unless otherwise specified under Remarks, the cable is for general use. An index of the cables arranged numerically by code numbers can be found in **5.01**.

**4.03 Rating:** The cables included in the tables are rated Standard unless otherwise noted.

**4.04 Conductor Arrangement:** The number of pairs and singles with the associated color combinations is specified for single unit cables. The number of units is specified for multi-unit cables followed by the number of pairs and singles in each section with the associated color combination. The color combinations referred to are those specified in Practice 800-612-161 covering color combinations and uses. For example:

804A	140	4 units: 20 pairs, 1c-20c, each in BL, 0 & G sections; 10 pairs, 1c-10c, each in BR section	0.51	3
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The 804A cable has 140 conductors arranged in 4 units. 3 units of 20 pairs each with color combination

1c-20c in BL, 0, and G sections and 1 unit of 10 pairs with color combination 1c-10c in BR section.

**4.05 Size of Cable:** Dimensions of cables in this list are the average of the maximum and minimum dimensions shown in the manufacturing information. Unless otherwise specified, the actual sizes may be expected to vary  $\pm 0.03$  inch in oval-type cables, and  $\pm 0.04$  inch in round cables.

**Checking List for Tables**

	Table	Page
A — No. 26 Gauge Conductors		9
B — No. 24 Gauge Conductors		12
C — No. 22 Gauge Conductors		16
D — No. 21 and 24 (Mixed) Gauge Conductors		20
E — No. 20 Gauge Conductors		22
F — No. 16 Gauge Conductors		22
G — No. 22 Gauge Quadded Conductors		22
H — No. 26 Gauge Shielded Cable		23
I — No. 24 Gauge Shielded Cable		25
J — No. 22 Gauge Shielded Cable		25
K — No. 22 Gauge Shielded Pair Cable		26
L — No. 19 Gauge Shielded Pair Cable		27
M — No. 24 Gauge Conductors - Shielded Pair Cable		27
N — No. 22 Gauge Conductors - Shielded Pair Cable		28
O — No. 09 Gauge Conductors - Shielded Pair Cable		28
P — Coaxial Cable		28
Q — No. 22 Gauge Dual-Insulated Conductors—Bonded Alwyn Sheath		30
R — Lightguide Central Office Cable		31

**B. Lightguide Central Office Cables**

**4.06** See Table R (page 31) for a listing of lightguide central office cables.

**5. INDEX OF STANDARD COPPER CENTRAL OFFICE CABLES**

**5.01** For convenient reference, the cables are arranged in numerical code sequence in the following list. The item number refers to the number shown for each cable in Tables A through Q.

CABLE CODE	CONDUCTORS	ITEM NO.	CABLE CODE	CONDUCTORS	ITEM NO.	CABLE CODE	CONDUCTORS	ITEM NO.
24A	40	60	205R	36	59	257A	80	36
24AS	40	129	230A	132	70	257AS	80	127
24R	40	60	230R	132	70	257R	80	36
50R	30	58	233A	124	68	258A	100	38
62A	60	62	233R	120	67	258R	100	38
62R	60	62	234A	160	72	259A	124	40
66A	100	66	234R	160	72	259R	124	40
66R	100	66	235A	200	74	260A	150	42
69A	200	74	235R	200	74	260R	150	42
69R*	200	74	243A	300	75	261A	160	43
70A	80	64	243R	300	75	261B	160	43
70R	80	64	251R	80	36	262A	200	45
74A	20	56	252A	12	26	262R*	200	45
74R	20	56	252AS	12	122	263A	300	49
97A	128	69	252R	12	26	263R	300	49
97R	128	69	253A	20	28	264A	180	44
106A	100	66	253AS	20	124	264R	180	44
106R	100	66	253R	20	28	265A	24	29
182A	12	54	254A	30	30	265R	24	29
182R	12	54	254R	30	30	266A	48	34
183A	50	61	255A	40	32	266AS	48	126
183R	50	61	255AS	40	125	266R	48	34
191A	90	65	255R	40	32	267A	144	41
191R	90	65	256A	60	34	267R	144	41
205A	36	59	256R	60	34	269A	72	35

\*69R and 262R cables each have 2 spare pairs.

CABLE CODE	CONDUCTORS	ITEM NO.	CABLE CODE	CONDUCTORS	ITEM NO.	CABLE CODE	CONDUCTORS	ITEM NO.
269R	72	35	292A	300	86	458B	16	93
270A	100	38	293A	180	84	459B	40	95
270AS	100	128	294A	16	27	479R	8	132
270R	100	38	294AS	16	123	500R	8	96
271R	180	73	295A	120	39	501R	16	97
272R	32	31	296A	90	80	502R	32	98
273R	120	39	297A	150	82	503R	40	99
274A	90	37	298A	40	77	504R	48	100
276A	24	57	299A	80	79	505R	64	101
276R	24	57	300A	120	81	506R	80	102
278R	64	63	301A	160	83	606B	12	153
280A	150	71	302A	200	85	607B	24	154
282R	60	62	400R	18	55	608B	32	155
283A	204	46	401R	10	53	609B	50	156
283R	60	62	403R	6	50	610B	100	157
284A	180	44	404R	9	52	611B	200	159
285A	8	51	405R	30	58	612B	150	158
286A	8	25	450R	6	87	724B	2	146
286AS	8	121	451R	12	88	726	2	147
287A	240	47	452R	16	89	727A	2	146
288A	228	48	453R	22	90	728B	2	148
289A	60	78	454B	20	94	729A	2	149
290A	30	76	456B	6	91	730B	2	150
291A	120	81	457B	12	92			

CABLE CODE	CONDUCTORS	ITEM NO.	CABLE CODE	CONDUCTORS	ITEM NO.	CABLE CODE	CONDUCTORS	ITEM NO.
731B	2	151	761A10	2	140	809A	128	16
732A	20	152	761A11	2	140	809AS	128	113
736A	24	29	761A12	2	140	810A	256	22
737A	24	5	761A13	2	140	810AS	256	118
741A	72	12	761A14	2	140	811A	16	3
742A	96	14	761A15	2	140	811AS	16	105
745A	8	1	761A16	2	140	811R	16	3
746A	16	3	761A17	2	140	812A	8	1
747A	24	6	762A	20	142	812AS	8	103
750A	4	130	763A	24	143	812R	8	1
751A	6	131	764A	16	141	813A	100	15
752A	12	134	800A	40	8	813AS	100	111
753A	24	136	800AS	40	108	814A	288	23
754E	2	145	801A	60	10	814AS	288	119
755A	4	137	801AS	60	109	816A	12	2
756A	16	138	802A	100	15	816AS	12	104
757A	20	139	802AS	100	112	817R	50	9
758A	8	133	803A	80	13	818R	50	9
759A	16	135	803AS	80	111	819A	336	24
760A	2	144	804A	140	17	819AS	336	120
761A1	2	140	804AS	140	114	819R	50	9
761A2	2	140	805A	160	18	820A	20	4
761A3	2	140	805AS	160	115	820AS	20	106
761A4	2	140	806A	200	21	820R	50	9
761A5	2	140	806AS	200	117	821A	168	19
761A6	2	140	807A	32	7	821AS	168	116
761A7	2	140	807AS	32	107	821R	16	3
761A8	2	140	808A	64	11	822A	96	14
761A9	2	140	808AS	64	110	823A	192	20

**TABLE A**  
**NO. 26 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
1	812A	8	4 pairs, 1c-4c	0.21	1	1/2" twist length*
	812R		4 pairs, 26c-29c	0.28	1	
	745A		4 pairs, 1-4	0.20	1	
2	816A	12	6 pairs, 1c-6c	0.22	1	1/2" twist length* No outer jacket 1/2" twist length*
3	811A	16	8 pairs, 1c-8c	0.23	1	
	811R		8 pairs, 26c-33c	0.25	1	
	821R		8 pairs, 26c-33c	0.21	1	
	746A		8 pairs, 1-5, 21-23	0.25	1	
4	820A	20	10 pairs, 1c-10c	0.23	1	
5	737A	24	12 pairs, 1c-12c	0.22	1	Core only No jacket, no binder
6	747A	24	12 pairs, 1-5, 21-25, 41 & 42	0.27	1	1/2" twist length*
7	807A	32	16 pairs, 1c-16c	0.29	1	
8	800A	40	20 pairs, 1c-20c	0.31	1	
9	817R	50	25 pairs, 26c-50c	0.31	1	No outer jacket
	818R		25 pairs, 26c-50c	0.39	2	
	819R		25 pairs, 26c-50c	0.31	1	1/2" twist length* No outer jacket
	820R		25 pairs, 26c-50c	0.39	1-1/2	1/2" twist length*
10	801A	60	20 pairs, 1c-20c; 20 singles, 1c-20c	0.36	1-1/2	
11	808A	64	2 units: 16 pairs, 1c-16c, each in BL & O sections	0.37	1-1/2	
12	741A	72	2 units: 18 pairs, 1-5, 21-25, 41-45, and 201-203, each in BL & O sections.	0.38	1-1/2	1/2" twist length*
13	803A	80	2 units: 20 pairs, 1c-20c, each in BL or O sections;	0.40	2	
14	742A	96	8 units: 6 pairs, 1-5 pairs, 21, each in BL, O, G, BR, S, BL-W, O-W & G-W sections.	0.43	2	1/2" twist length*

\*Use only in special applications where circuit conditions require short twist lengths.

**TABLE A (Cont)**  
**NO. 26 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
14	822A	96	4 units: 12 pairs, 1c-12c, each in BL, O, G & BR sections	0.44	2	
15	813A	100	3 units: 20 pairs, 1c-20c, each in BL & O sections; 10 pairs, 1c-10c in G section	0.45	2	
	802A		3 units: 20 pairs, 1c-20c, each in BL & O sections; 20 singles, 1c-20c in G section	0.43		
16	809A	128	4 units: 16 pairs, 1c-16c, each in BL, O, G & BR sections	0.48	3	
17	804A	140	4 units: 20 pairs, 1c-20c, each in BL, O & G sections; 10 pairs, 1c-10c, each in BR section	0.51	3	
18	805A	160	4 units: 20 pairs, 1c-20c, each in BL, O, G & BR sections	0.53	3	
19	821A	168	7 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W & O-W sections	0.53	3	
20	823A	192	8 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W, O-W & G-W sections	0.57	3-1/2	

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\*Use only in special applications where circuit conditions require short twist lengths.

**TABLE A (CONT)**  
**NO. 26 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
21	806A	200	5 units: 20 pairs, 1c-20c, each in BL, O, G, BR & S sections	0.58	3-1/2	
22	810A	256	8 units: 16 pairs, 1c-16c, each in BL, O, G, BR, S, BL-W, O-W & G-W sections	0.65	4	
23	814A	288	12 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W, O-W, G-W, BR-W, S-W, BL-R & O-R sections	0.67	4	
24	819A	336	12 units: 14 pairs, 1c-14c, each in BL, O, G, BR, S, BL-W, O-W, G-W, BR-W, S-W, BL-R & O-R sections	0.81	4	

**TABLE B**  
**NO. 24 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
25	286A	8	4 pairs, 1c-4c	0.23	1	
26	252A 252R	12	6 pairs, 1c-6c 6 pairs, 26c-31c	0.25 0.23	1	
27	294A	16	8 pairs, 1c-8c	0.28	1	
28	253A 253R	20	10 pairs, 1c-10c 10 pairs, 26c-35c	0.31 0.30	1	
29	265A 265R	24	12 pairs, 1c-12c 12 pairs, 26c-37c	0.33 0.31	2	
	736A		12 pairs, 1c-12c	0.27		Core only No jacket, No binder
30	254A	30	10 pairs, 1c-10c; 10 singles, 1c-10c	0.36	2	
	254R		10 pairs, 26c-35c; 10 singles, 26c-35c	0.33		
31	272R	32	16 pairs, 26c-41c	0.34	2	
32	255A	40	20 pairs, 1c-20c	0.41	2	
	255R		20 pairs, 26c-45c	0.37		
33	266A	48	2 units: 12 pairs, 1c-12c, each in BL & O sections	0.44	3	
	266R		2 units: 12 pairs, 26c-37c each in BL & O sections	0.40		
34	256A	60	20 pairs, 1c-20c; 20 singles, 1c-20c	0.48	3	
	256R		20 pairs, 26c-45c 20 singles, 26c-45c	0.43		
35	269A	72	3 units: 12 pairs, 1c-12c, each in BL, O & G sections	0.52	3	
	269R		3 units: 12 pairs, 26c-37c, each in BL, O & G sections	0.48		

**TABLE B (Cont)**  
**NO. 24 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
36	257A	80	2 units: 20 pairs, 1c-20c, each in BL & O sections	0.54	3	
	257R		2 units: 20 pairs, 26c-45c, each in BL & O sections	0.50		
	251R		3 units: 20 pairs, 26c-45c, in BL section; 10 pairs, 26c-35c, in O section; and 20 singles, 26c-45c, in G section	0.50	3-1/2	
37	274A	90	3 units: 20 pairs, 1c-20c, each in BL & O sections; 10 singles, 1c-10c in G section	0.58	3-1/2	
38	270A	100	3 units: 20 pairs, 1c-20c, each in BL & O sections; 10 pairs, 1c-10c, in G section	0.60	4	
	270R		3 units: 20 pairs, 26c-45c, each in BL & O sections; 10 pairs, 26c-35c, in G section	0.55		
	258A		3 units: 20 pairs, 1c-20c, each in BL & O sections; 20 singles, 1c-20c, in G section	0.60		
	258R		3 units: 20 pairs, 26c-45c, each in BL & O sections; 20 singles, 26c-45c, in G section	0.53		
39	295A	120	3 units: 20 pairs, 1c-20c, each in BL, O & G sections	0.65	4	

**TABLE B (Cont)**  
**NO. 24 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
39	273R	120	4 units: 20 pairs, 26c-45c, each in BL & O sections; 20 singles, 26c-45c, each in G & BR sections	0.59	4	
40	259A	124	3 units: 2 pairs, 1c & 2c, in G section; 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL & O sections	0.65	4	
	259R		3 units: 2 pairs, 26c & 27c, in G section; 20 pairs, 26c-45c, and 20 singles, 26c-45c, each in BL & O sections	0.59		
41	267A	144	6 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S & BL-W sections	0.70	4	
	267R		6 units: 12 pairs, 26c-37c, each in BL, O, G, BR, S & BL-W sections	0.64		
42	260A	150	3 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL & O sections; 10 pairs, 1c-10c, and 10 singles, 1c-10c, in G section	0.71	4	
	260R		3 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c, each in BL & O sections; 10 pairs, 26c-35c, and 10 singles, 26c-35c, in G section	0.64		
43	261A	160	4 units: 20 pairs, 1c-20c, each in BL, O, G & BR sections	0.74	4	
	261R		4 units: 20 pairs, 26c-45c, each in BL, O, G & BR sections	0.67		

**TABLE B (Cont)**  
**NO. 24 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
44	264A	180	3 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL, O & G sections	0.77	4	
	264R		3 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c, each in BL, O & G sections	0.69		
	284A		5 units: 20 pairs, 1c-20c, each in BL, O, G & BR sections; 10 pairs, 1c-10c, in S section	0.78		
45	262A	200	5 units: 20 pairs, 1c-20c, each in BL, O, G, BR & S sections	0.82	4	
	262R		5 units: 20 pairs, 26c-45c, each in BL, O, G, BR & S sections; 2 spare pairs, 6C & 7C	0.75		
46	283A	204	6 units: 17 pairs, 1c-17c, each in BL, O, G, BR, S & BL-W sections	0.84	4	
47	287A	240	10 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W, O-W, G-W, BR-W & S-W sections	0.90	6	
48	288A	288	12 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W, O-W, G-W, BR-W, S-W, BL-R & O-R sections	0.98	6	
49	263A	300	5 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL, O, G, BR&S sections	0.99	6 desirable. 4 minimum (use only where necessary).	
	263R		5 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c, each in BL, O, G, BR&S sections	0.90		

**TABLE C**  
**NO. 22 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
50	403R	6	3 pairs, 26c-28c	0.20	1	Battery supply
51	285A	8	4 pairs, 1c-4c	0.24	1	
52	404R	9	3 triples, 1-3	0.24	1	Battery supply
53	401R	10	5 pairs, 26c-30c	0.25	1	Battery supply
54	182A	12	6 pairs, 1c-6c	0.27	1	
	182R		6 pairs, 26c-31c	0.25		
55	400R	18	6 triples, 1-6	0.31	1	Battery supply
56	74A	20	10 pairs, 1c-10c	0.34	1	
	74R		10 pairs, 26c-35c	0.31		
57	276A	24	12 pairs, 1c-12c	0.37	2	
	276R		12 pairs, 26c-37c	0.33		
58	405R	30	10 triples, 1-10	0.37	2	Battery supply
	50R		10 pairs, 26c-35c; 10 singles, 26c-35c	0.36		
59	205A	36	12 pairs, 1c-12c; 12 singles, 1c-12c	0.43	2	
	205R		12 pairs, 26c-37c; 12 singles, 26c-37c	0.38		
60	24A	40	20 pairs, 1c-20c	0.45	2	
	24R		20 pairs, 26c-45c	0.41		
61	183A	50	20 pairs, 1c-20c; 10 singles, 1c-10c	0.49	3	
	183R		20 pairs, 26c-45c; 10 singles, 26c-35c	0.44		
62	62A	60	2 units: 15 pairs, 1c-15c, each in BL & O sections	0.53	3	
	62R		2 units: 15 pairs, 26c-40c, each in BL & O sections	0.48		

**TABLE C (Cont)**  
**NO. 22 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
62	282R	60	3 units: 10 pairs, 26c-35c, each in BL&O sections; 20 singles, 26c-45c in G section	0.48	3	
	283R		20 pairs, 26c-45c; 20 singles, 26c-45c	0.48		
63	278R	64	2 units: 20 pairs and 20 singles, 26c-45c, in BL section; 4 singles, 26c-29c, in O section	0.48	3	
64	70A	80	2 units: 20 pairs, 1c-20c, each in BL&O sections	0.60	3	
	70R		2 units: 20 pairs, 26c-45c, each in BL&O sections	0.54		
65	191A	90	2 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, in BL section; 10 pairs, 1c-10c; 10 singles, 1c-10c, in O section	0.63	3	
	191R		2 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c, in BL section; 10 pairs, 26c-35c; 10 singles, 26c-35c, in O section	0.57		
66	66A	100	3 units: 20 pairs 1c-20c, each in BL&O sections; 10 pairs, 1c-10c, in G section	0.66	3	
	66R		3 units: 30 pairs, 26c-45c, each in BL&O sections; 10 pairs, 26c-35c, in G section	0.59		
	106A		3 units: 20 pairs, 1c-20c, each in BL&O sections; 20 singles, 1c-20c, in O section	0.66		

**TABLE C (Cont)**  
**NO. 22 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	COND COND	NO. OF CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (INCHES)	REMARKS
66	106R	100	3 units: 20 pairs, 26c-45c, each in BL&O sections; 20 singles, 26c-45c, in G section	0.59	3	
67	233R	120	2 units: 20 pairs 26c-45c, and 20 singles, 26c-45c, each in BL&O sections	0.64	4	
68	233A	124	2 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL&O sections; 2 pairs, 1c & 2c, in center of cable (G binder)	0.72	4	
69	97A	128	3 units: 20 pairs, 1c-20c, each in BL,O & G sections; 4 pairs, 1c-4c, in center of cable (BR binder)	0.74	4	
	97R		3 units: 20 pairs, 26c-45c, each in BL,O & G sections; 4 pairs, 26c-29c, in center of cable (BR binder)	0.66		
70	230A	132	3 units: 20 pairs, 1c-20c, each in BL,O & G sections; 6 pairs, 1c-6c, in center of cable (BR binder)	0.75	4	
	230R		3 units: 20 pairs, 26c-45c, each in BL,O & G sections; 6 pairs, 26c-31c, in center of cable (BR binder)	0.67		
71	280A	150	3 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL&O sections; 10 pairs, 1c-10c; 10 singles, 1c-10c, in G section	0.79	4	

**TABLE C (Cont)**  
**NO. 22 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
72	234A	160	4 units: 20 pairs, 1c-20c, each in BL, O, G & BR sections	0.82	4	
	234R		4 units: 20 pairs, 26c-45c, each in BL, O, G & BR sections	0.73		
73	271R	180	3 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c, each in BL, O, & G sections	0.78	4	
74	235A	200	4 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL&O sections; 20 pairs, 1c-20c, each in G & BR sections	0.91	4	
	235R		4 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c, each in BL & OR sections; 20 pairs, 26c-45c, each in GN & BR sections	0.83		
	69A		5 units: 20 pairs, 1c-20c, each in BL, O, G, BR & S sections	0.92		
	69R		5 units: 20 pairs, 26c-45c, each in BL, O, G, BR & S sections; 2 spare pairs, 6c & 7c	0.83		
75	243A	300	5 units: 20 pairs, 1c-20c, and 20 singles, 1c-20c, each in BL, O, G, BR & S sections	1.10	6	
	243R		5 units: 20 pairs, 26c-45c, and 20 singles, 26c-45c each in BL, O, G, BR & S sections	1.00		

**TABLE D**  
**NO. 22 and 24 (MIXED) GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
76	290A	30	10 pairs (24 GA), 1c-10c; 10 singles (22 GA), 1c-10c	0.38	2	
77	298A	40	2 units: 10 pairs and 10 singles (24 Ga), 1c-10c, in BL section; 10 singles, 1c-10c (22Ga), in O section.	0.42	2 1/2	
78	289A	60	20 pairs (24 GA), 1c-20c; 20 singles (22 GA), 1c-20c	0.50	3	
79	299A	80	2 units: 20 pairs and 20 singles (24 Ga), 1c-20c, in BL section; 20 singles (22 Ga), 1c-20c, in O section.	0.56	3	
80	296A	90	2 units: 20 pairs (24 Ga), 1c-20c; 20 singles (22 Ga), 1c-20c, in BL section; 10 pairs (24 Ga), 1c-10c; 10 singles (22 Ga), 1c-10c, in O section.	0.60	3 1/2	
81	300A	120	4 units: 20 pairs and 20 singles (24 Ga), 1c-20c, in BL section; 10 pairs and 10 singles (24 Ga), 1c-10c in O section; 20 singles (22 Ga), 1c-20c, in G section; 10 singles (22 Ga), 1c-10c, in BR section.	0.68	4	
	291A		2 units: 20 pairs (24 Ga), 1c-20c, and 20 singles (22 Ga), 1c-20c, each in BL & O sections	0.70		

**TABLE D (CONT)**  
**NO. 22 and 24 (MIXED) GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
82	297A	150	3 units: 20 pairs (24 Ga), 1c-20c, and 20 singles (22 Ga), 1c-20c in BL and O sections; 10 pairs (24 Ga), 1c-10c, and 10 singles (22 Ga), 1c-10c, in G section.	0.74	4 1/2	
83	301A	160	4 units: 20 pairs and 20 singles (24 Ga), 1c-20c, each in BL & O sections; 20 singles (22 Ga), 1c-20c, each in G & BR sections.	0.77	4 1/2	
84	293A	180	3 units: 20 pairs, (24 Ga), 1c-20c, and 20 singles (22 Ga), 1c-20c, each in BL, O & G sections	0.85	5	
85	302A	200	6 units: 20 pairs and 20 singles (24 Ga), 1c-20c, each in BL & O sections; 10 pairs and 10 singles (24 Ga), 1c-10c, in G section; 20 singles (22 Ga), 1c-20c, each in BR & S sections; 10 singles (22 Ga), 1c-10c, in BL-W section.	0.85	5	
86	292A	300	5 units: 20 pairs (24 Ga), 1c-20c, and 20 singles (22 Ga), 1c-20c, each in BL, O G, BR & S sections	1.00	6	

**TABLE E**  
**NO. 20 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
87	450R	6	3 pairs, 26c-28c	0.24	1	Battery Supply
88	451R	12	6 pairs, 26c-31c	0.31	2	Battery Supply
89	452R	16	8 pairs, 26c-33c	0.34	2	Battery Supply
90	453R	22	11 pairs, 26c-36c	0.38	2	Battery Supply

**TABLE F**  
**NO. 16 GAUGE CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
91	456B	6	3 pairs, 26c-28c	0.40	1	Battery Supply
92	457B	12	6 pairs, 26c-31c	0.53	2	Battery Supply
93	458B	16	8 pairs, 26c-33c	0.59	2	Battery Supply
94	454B	20	10 pairs, 26c-35c	0.64	2	Battery Supply
95	459B	42	20 pairs, 26c-45c	0.89	3	Battery Supply

**TABLE G**  
**NO. 22 GAUGE QUADDED CONDUCTORS**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
96	500R	8	2 Quads, 26c-27c	0.24	1	Toll sys term. & rep eqpt
97	501R	16	4 Quads, 26c-29c	0.31	1	Toll sys term. & rep eqpt
98	502R	32	8 Quads, 26c-33c	0.40	2	Toll sys term. & rep eqpt
99	503R	40	10 Quads, 26c-35c	0.44	2	Toll sys term. & rep eqpt
100	504R	48	12 Quads, 26c-37c	0.49	3	Toll sys term. & rep eqpt
101	505R	64	16 Quads, 26c-41c	0.56	3	Toll sys term. & rep eqpt
102	506R	80	20 Quads, 26c-45c	0.60	3	Toll sys term. & rep eqpt

**TABLE H  
NO. 26 GAUGE SHIELDED CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
103	812AS	8	4 pairs, 1c-4c	0.24	1	
104	816AS	12	6 pairs, 1c-6c	0.25	1	
105	811AS	16	8 pairs, 1c-8c	0.26	1	
106	820AS	20	10 pairs, 1c-10c	0.26	1	
107	807AS	32	16 pairs, 1c-16c	0.32	1	
108	800AS	40	20 pairs, 1c-20c	0.34	1 1/2	
109	801AS	60	20 pairs, 1c-20c 20 singles, 1c-20c	0.39	2	
110	808AS	64	2 units: 16 pairs, 1c-16c, each in BL & O sections	0.40	2	
111	803AS	80	2 units: 20 pairs, 1c-20c, each in BL & O sections	0.43	2	
112	813AS	100	3 units: 20 pairs 1c-20c, each in BL & O sections; 10 pairs, 1c-10c in G section	0.48	3	
	802AS		3 units: 20 pairs 1c-20c, each in BL & O sections; 20 singles, 1c-20c in G section	0.46		

**TABLE H (CONT)  
NO. 26 GAUGE SHIELDED CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
113	809AS	128	4 units: 16 pairs, 1c-16c, each in BL, O, G & BR sections	0.51	3 1/2	
114	804AS	140	4 units: 20 pairs, 1c-20c, each in BL, O & G sections; 10 pairs, 1c-10c, each in BR section;	0.53	3 1/2	
115	805AS	160	4 units: 20 pairs 1c-20c, each in BL, O, G & BR sections	0.56	4	
116	821AS	168	7 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W & O-W sections	0.56	4	
117	806AS	200	5 units: 20 pairs, 1c-20c, each in BL, O, G, BR & S sections	0.61	4	
118	810AS	256	8 units: 16 pairs, 1c-16c, each in BL, O, G, BR, S, BL-W, O-W & G-W sections	0.68	4	
119	814AS	228	12 units: 12 pairs, 1c-12c, each in BL, O, G, BR, S, BL-W, O-W, G-W, BR-W, S-W, BL-R & O-R sections	0.74	4	
120	819AS	336	12 units: 14 pairs 1c-14c, each in BL, O, G, BR, S, BL-W, O-W, G-W, BR-W, S-W, BL-R & O-R sections	0.90	4 1/2	

**TABLE I**  
**NO. 24 GAUGE SHIELDED CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
121	286AS	8	4 pairs, 1c-4c	0.32	1 1/2	
122	252AS	12	6 pairs, 1c-6c	0.34	1 1/2	
123	294AS	16	8 pairs, 1c-8c	0.37	1 1/2	
124	253AS	20	10 pairs, 1c-10c	0.40	1 1/2	
125	255AS	40	20 pairs, 1c-20c	0.50	2 1/2	
126	266AS	48	2 units: 12 pairs, 1c-12c, each in BL & O sections	0.53	3 1/2	
127	257AS	80	2 units: 20 pairs, 1c-20c, each in BL & O sections	0.63	3 1/2	
128	270AS	100	3 units: 20 pairs, 1c-20c, each in BL & O sections; 10 pairs, 1c-10c in G section	0.70	3	Shielded per X-17198

**TABLE J**  
**NO. 22 GAUGE SHIELDED CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
129	24AS	40	20 pairs, 1c-20c	0.55	2 1/2	

**TABLE K**  
**NO. 22 GAUGE SHIELDED PAIR CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
130	750A	4	2 pairs, 1 & 2.	Oval*† 0.35 x 0.190	1, flat; 2, edge	General use where shielded pairs are required (PE insulated wire)
131	751A	6	3 pairs, 1-3.	0.34	1	General use where shielded pairs are required (PE insulated wire)
132	479R	8	4 pairs, 46C-49C	0.49	2	General use where shielded pairs are required (Type DP wire)
133	758A	8	4 pairs, 1-4.	0.38	2	General use where shielded pairs are required (PE insulated wire)
134	752A	12	6 pairs, 1-5 & 21.	0.47	2	General use where shielded pairs are required (PE insulated wire)
135	759A	16	8 pairs, 1-5 & 21-23.	0.52	3	General use where shielded pairs are required (PE insulated wire)
136	753A	24	12 pairs, 1-5, 21-25, 41 & 42.	0.62	3	General use where shielded pairs are required (PE insulated wire)

\*Approximate dimensions only. Not held to the usual 0.04-inch variation.

†All cables are round except 750A, 755A and 762A.

**TABLE L**  
**NO. 19 GAUGE SHIELDED PAIR CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
137	755A	4	2 pairs, 1 & 2.	Oval* 0.37 x 0.21	1, flat; 2, edge.	General use where shielded pairs are required (PE insulated wire)
138	756A	16	8 pairs, 1-5 & 21-23.	0.62	3	General use where shielded pairs are required (PE insulated wire)
139	757A	20	10 pairs, 1-5 & 21-25.	0.68	3	General use where shielded pairs are required (PE insulated wire)

**TABLE M**  
**NO. 24 GAUGE CONDUCTORS - SHIELDED PAIR CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
140	761A1 through 761A17	2	1 pair each; color coded, 1-5, 21-25, 41-45, 45A & 20A respectively.	0.225 Max	1/2	PE insulated wire covered with 2 braided shields of tinned-copper wire.
141	764A	16	Contains 8 cables (761A1-761A8) enclosed in plastic jacket	0.69	4, flat; 4, edge	
142	762A	20	Contains 10 cables (761A1-761A10) enclosed in a plastic jacket.	Oval* 0.65 x 0.82	4, flat; 4, edge.	
143	763A	24	Contains 12 shielded pairs, 1-5, 21-25, 41 & 42.	0.67	4	PE insulated wire covered with a single braided shield.

\*All cables are round except 750A, 755A and 762A.

**TABLE N**  
**NO. 22 GAUGE CONDUCTORS - SHIELDED PAIR CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
144	760A	2	1 pair, 1.	0.305	2	PE insulated wire.

**TABLE O**  
**NO. 19 GAUGE CONDUCTORS - SHIELDED PAIR CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
145	754E	2	1 pair, 1.	0.425	2	PE insulated wire.

**TABLE P**  
**COAXIAL CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
146	724B 727A	2	Concentric inner conductor: 20 Gauge copper; outer conductor: double braid of tinned-copper wire.	0.312 Max	2† 3 ‡	(see 3.18)
147	726	2	Concentric inner conductor: 20 Gauge nichrome; outer conductor: double braid of tinned-copper wire.	0.312 Max	2† 3	

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 †Use smaller bending radii only when no soldering or heating operation is to be performed within three inches of the bend, or when the soldering operation can be performed before the bend is made.

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 ‡In all cases where No. 724 cable is not sufficiently supported to ensure a 2-inch minimum bending radius, or where presence of framework or pressure from other cables might reduce the bending radius, cable supports P-188058 or P-188059 shall be used on 180° or 90° bends, respectively.

**TABLE P (CONT)  
COAXIAL CABLE**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM INSIDE BENDING RADIUS (IN INCHES)	REMARKS
148	728B	2	Concentric inner conductor: .0311 in. copper; outer conductor: double braid of tinned-copper wire.	0.312 Max	1-1/2** 3	
149	729A	2	Concentric inner conductor: 20 Ga copper; outer conductor: double braid of tinned-copper wire.	0.36 Max	1-1/2** 3	
150	730B	2	Inner conductor: 23 Ga copper covered steel wire; outer conductor: double braid of tinned-copper wire.	0.260	1** 2	
151	731B	2	Inner conductor: 23 Ga copper covered steel wire; outer conductor: double braid of tinned-copper wire.	0.260	1** 2	
152	732A	20	Composite of 10 730B Cables	1.125	1** 2	

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\*\*Smaller bending radii is used only when no soldering or heating operation is to be performed within three inches of the bend or when the soldering operation can be performed before the bend is made.

**TABLE Q**  
**NO. 22 GAUGE, DUAL-INSULATED CONDUCTORS - BONDED ALVYN SHEATH(1)**

ITEM NO.	CABLE CODE	NO. OF COND	CONDUCTOR ARRANGEMENT	DIAMETER (IN INCHES)	MINIMUM <sup>(2)</sup> INSIDE BENDING RADIUS (IN INCHES)	REMARKS
153	606B	12	6 Pairs, 26D-31D	0.50	5	
154	607B	24	12 pairs, 26D-37D	0.60	6	
155	608B	32	16 pairs, 26D-41D	0.60	6	
156	609B	50	25 pairs, 26D-50D	0.70	7	
157	610B	100	4 units: 12 Pairs, 26D-37D, each in BL-W & O-W sections; 3 pairs 38D-50D, each in BL-W & O-W sections	1.05	10	
158	612B	150	3 units: 25 pairs, 26D-50D, each in BL-W, O-W & G-W sections	1.07	10	
159	611B	200	7 units: 25 pairs, 26D-50D in BL-W section; 12 pairs, 26D-37D, each in O-W, G-W & BR-W sections; 13 pairs, 38D-50D, each in O-W, G-W & BR-W sections	1.20	12	

(1)Sheath has 8 mil corrugated aluminum bonded to dark gray PVC.

(2)Minimum radius of 10 x diameter recommended for cables with aluminum shields.

**TABLE R  
LIGHTGUIDE CENTRAL OFFICE CABLE**

CODE	CABLE CONFIGURATION	APPROX CABLE DIA (IN.)	FIBER TYPE	FIBER* DIMENSIONS	INITIAL USE** (LIGHTGUIDE INTERCONNECTION CABLE CODE)	APPLICATION AND REMARKS
1800A	Single Fiber	0.095	Multi-Mode	50/125	LA1A	Trunk & Loop
1800B	Single Fiber	0.095	Multi-Mode	50/125	LB1B	Datalink
1800C	Single Fiber	0.095	Multi-Mode	88/220	Photon Bucket	Trunk Apparatus
1800D	Single Fiber	0.095	Multi-Mode	50/125	Multi-Mode Pigtailed	Loose Tube
1801B	Duplex Fiber	0.119x 0.214	Multi-Mode	50/125	LB2B	Datalink 2-1800B Units
1802A	Quad Fiber	0.330	Multi-Mode	50/125	LA4A	Trunk & Loop 4-1800A Units
1840A	Single Fiber	0.095	Multi-Mode	70/140	Universal Photon Bucket	Loop Apparatus
1860A	Single Fiber	0.095	Multi-Mode	62.5/125	LL1A	Loop
1861A	Duplex Fiber	0.119x 0.214	Multi-Mode	62.5/125	LL2A	Loop 2-1860 Units
1862A	Quad Fiber	0.330	Multi-Mode	62.5/125	LL4A	Loop 4-1860 Units
1902A	Quad Fiber	0.330	2-Multi-Mode 2-Single-Mode	50/125 8/125	LS4A-A	Hybrid Quad
2000A	Single Fiber	0.095	Single-Mode	8/125	LS1A	Trunk
2000B	Single Fiber	0.095	Single-Mode	8/125	Single Mode Pigtailed	Loose Tube

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\*For Example: 50/125 means 50 microns diameter of fiber core, 125 microns diameter over cladding.  
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\*\*Lightguide interconnection cables are covered in appropriate transmission and switching equipment practices.