



## Cable Conductor and Bonding Strip



IPC manufactures a full range of copper and aluminum conductor cable and secondary bonding material for all types of lightning protection system applications.

IPC offers cable for both Class I and II structures. Class I material is for buildings that are under 75' in height, i.e., residential dwellings, schools, hospitals, libraries, shopping malls, etc. Class II material is for buildings over 75' in height, i.e. high rise office buildings, apartment complexes, cell towers, grain elevators, etc.

Bonding wire and strap - For metallic objects that are located within six feet of the lightning protection system, it is necessary to make a bond for the object into the main lightning protection system. This bond eliminates the possibility of sideflash from the lightning protection system to this other grounded metal body. Reference the lightning protection standards as noted below for additional details and requirements on bonding.

For complete lightning protection system installation requirements, we suggest your purchase of National Fire Protection Association 780, Underwriters Laboratories 96A or Lightning Protection Institute 175. These nationally recognized publications are utilized by IPC in the design and installation of lightning protection systems.



**Product Manufactured by: Independent Protection Co., Inc.**  
**Product Distributed by: Ohio Valley Lightning Protection, Inc.**  
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# Class I Copper Cable



**#32S - Smooth Twist Copper Cable.** 32 strands of 17 gauge cable, 15/32" diameter, 65,600 circular mills, weight is 215 lbs per 1,000 feet, No. 2 size. ★

**#32L - Smooth Twist Copper Cable.** Same as above but cable is tin coated, weight is 260 lbs per 1,000 feet, No. 2 size.



**#G1 - Rope Lay Copper Cable.** 24 strands of 14 gauge cable 1/2" diameter, 98,600 circular mills, weight is 325 lbs per 1,000 feet, No. 1 size.



**#36S - Smooth Twist Copper Cable.** 36 strands of 17 gauge cable, 1/2" diameter, 74,000 circular mills, weight is 245 lbs per 1,000 feet.



**#F31 - Flat Braided Cable.** 32 strands of 17 gauge cable, 1" wide x 1/8" thick, weight is 205 lbs per 1,000 feet.

Standard spool lengths are 250' and 500'.  
 Special lengths available with a cut-length charge.  
 Any of the above cable can be supplied as tin coated.

★ Denotes normally stocked item available for shipment within 48 hours. Items not stocked are available within 14 days.



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# Class II Copper Cable



LISTED  
45H2

**#40 - Rope Lay Copper Cable.** 28 strands of .066 diameter cable, 1/2" diameter, 122,000 circular mils, weight is 375 lbs per 1,000 feet, No. 1/0 size. Standard spool length is 250' or 500'.

**#40L - Rope Lay Copper Cable.** As above description, but cable is tin coated. Weight is 407 lbs per 1,000 feet, No. 1/0 size.



LISTED  
45H2

**#G3 - Rope Lay Copper Cable.** 28 strands of .0865 diameter cable, 5/8" diameter, 211,600 circular mils, weight is 662 lbs per 1,000 feet, No. 4/0 size. Standard spool length is 250'.



LISTED  
45H2

**#21 - Rope Lay Copper Cable.** 30 strands of .066 diameter cable, 1/2" diameter, 133,500 circular mils, weight is 416 lbs per 1,000 feet, No. 2/0 size. Standard spool length is 250'.

Special lengths available on all cables with a cut-length charge.  
Any of the above cable can be supplied as tin coated.

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# Aluminum Cable



## Class I Aluminum Cable



**#A28 - Smooth Twist Aluminum Cable.** 28 strands of 14 gauge cable, 5/8" diameter, 115,080 circular mils, weight is 130 lbs per 1,000 feet, No. 1/0 size. ★

## Class II Aluminum Cable



**#A30 - Peerless Heavy Duty Aluminum Cable.** 37 strands of .0756 diameter cable, 211,600 circular mils, weight is 200 lbs for 1,000 feet, No. 4/0 size. ★

Standard spool lengths are 250' and 500'.  
Special lengths available with a cut-length charge.

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# Connecting and Bonding Cables



**#22 - Copper Connecting Cable.** 14 strands of 17 gauge cable, 1/4" diameter, 28,500 circular mils, weight is 90 lbs per 1,000 feet, No. 6 size. ★



**#A22 - Aluminum Connecting Cable.** 10 strands of 14 gauge cable, 5/16" diameter, 43,000 circular mils, weight is 39 lbs per 1,000 feet, No. 4 size. ★



**#45 - Flexible Copper Bonding Cable.** 480 strands of 30 gauge copper, 3/4" wide x 1/8" thick, 48,000 circular mils, weight is 160 lbs per 1,000 feet. Standard spool size is 250'. ★

**#A45 - Flexible Aluminum Bonding Cable.** Same as #45 above except in aluminum, weight is 50 lbs per 1,000 feet. ★

All cable above comes in standard spool size of 500', unless less noted otherwise. Special lengths available on all cables with a cut-length charge.



**#184 - Flexible Copper Bonding Connector.** 480 strands of 30 gauge copper, 3/4" wide x 1/8" thick, 48,000 circular mils. Standard #184 strap is 3/4" wide by 11" overall length or 10" from center hole to center hole. Bolt holes will accept up to 3/8" diameter bolt. Connector is used for bonding metal doors to door frames. Other lengths available upon request. For more detailed picture of cable portion, see #45 above. Weight is .16 lb. ea. ★

**#A184 - Flexible Aluminum Bonding Connector.** Same as #184 above except in aluminum. Weight is .06 lb. ea. ★

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# Connecting and Bonding Strap



**#48A - Plain Soft Copper Bonding Strip.** 5/8" wide x 16 B & S gauge, round edge, 41,740 circular mils, weight is 128 lb. per 1,000 feet. ★

**#A48 - Soft Aluminum Bonding Strip.** 5/8" x 14 B & S gauge, 41,740 circular mils, weight is 48 lb. per 1,000 feet. ★

**#48B - Soft Copper Bonding Strip.** Same as #48A above except strip is tinned, weight is 120 lb. per 1,000 feet. ★



**#49 - Plain Soft Copper Bonding Strip.** 1" wide x 16 B & S gauge, rounded edge, 59,000 circular mils, weight is 193 lb. per 1,000 feet. ★

**#A49 - Soft Aluminum Bonding Strip.** 1" x 14 B & S gauge, round edge, 59,000 circular mils, weight is 73 lb. per 1,000 feet. ★

**#49X - Soft Copper Bonding Strip.** Same as #49 above except strip is tinned, weight is 200 lb. per 1,000 feet. ★



**#49Y - Wide Soft Copper Bonding Strap.** 1 3/4" wide x 14 B & S gauge, rounded edge and tin coated for bonding to pipe. Weight is .44 lb. per foot. ★

All strips above come in standard lengths of 25' or 50'.  
Special lengths available upon request.



**#789 - Plain Copper Bonding Wire.** Wire is plain and soft drawn, No 6 Size. Diameter is .167, 26,250 circular mils. Wire is furnished in custom lengths as required. Weight is 80 lb. per 1,000 feet. ★

**#789X - Copper Bonding Wire, Tinned.** Same as #789 above except wire is tinned, weight is 80 lb. per 1,000 feet.

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## Connecting and Bonding Wire



**#G5 - Copper Bonding Wire.** Plain, soft drawn copper, .200 diameter, 41,800 circular mils. Wire is furnished in custom lengths as required. Weight is 125 lb. per 1,000 feet, No. 4 size. ★

**#AG5 - Aluminum Bonding Wire.** Weight is 39 lb. per 1,000 feet, No. 4. ★

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