

# ELECTRIC UTILITY DISTRIBUTION / TRANSMISSION

## WS 22 SERIES

### Bushings to Square Cut Insulation

These tables should only be used as a guide. Cable samples should be provided to Ripley to ensure proper sizing.



Bushing selection tables by conductor size and insulation thickness (part numbers listed)

**Concentric Strand Conductor**

**Replacement Blade: CB 22**

| CONDUCTOR<br>SIZE AWG | INSULATION THICKNESS |       |          |        |       |           |        |       |           |         |       |           |
|-----------------------|----------------------|-------|----------|--------|-------|-----------|--------|-------|-----------|---------|-------|-----------|
|                       | 60 MIL               |       |          | 80 MIL |       |           | 95 MIL |       |           | 110 MIL |       |           |
|                       | Max.                 | O.D.  | Part     | Max.   | O.D.  | Part      | Max.   | O.D.  | Part      | Max.    | O.D.  | Part      |
|                       | (in)                 | (mm)  | Number   | (in)   | (mm)  | Number    | (in)   | (mm)  | Number    | (in)    | (mm)  | Number    |
| 1/0                   | .515                 | 13.08 | 15-52540 | .565   | 14.35 | 15-57560  | .590   | 14.99 | 15-60075  | *       | *     | *         |
| 2/0                   | .565                 | 14.35 | 15-57540 | .590   | 14.99 | 15-60060  | .640   | 16.26 | 15-65075  | *       | *     | *         |
| 3/0                   | .615                 | 15.62 | 15-62540 | .665   | 16.89 | 15-67560  | .690   | 17.53 | 15-70075  | *       | *     | *         |
| 4/0                   | .665                 | 16.89 | 15-67540 | .715   | 18.16 | 15-72560  | .740   | 18.80 | 15-75075  | *       | *     | *         |
| MCM                   |                      |       |          |        |       |           |        |       |           |         |       |           |
| 250                   | *                    | *     | *        | .765   | 19.43 | 15-77560  | .790   | 20.07 | 15-80075  | .815    | 20.70 | 15-82590  |
| 350                   | *                    | *     | *        | .865   | 21.97 | 15-87560  | .890   | 22.61 | 15-90075  | .965    | 24.51 | 15-92590  |
| 500                   | *                    | *     | *        | .990   | 25.15 | 15-100060 | 1.040  | 26.42 | 15-105075 | 1.065   | 27.05 | 15-107590 |
| 600                   | *                    | *     | *        | 1.065  | 27.05 | 15-107560 | 1.115  | 28.32 | 15-112575 | 1.140   | 28.96 | 15-115090 |
| 700                   | *                    | *     | *        | 1.165  | 29.59 | 15-117560 | 1.190  | 30.23 | 15-120075 | 1.125   | 30.86 | 15-122590 |
| 750                   | *                    | *     | *        | 1.190  | 30.23 | 15-120060 | 1.215  | 30.86 | 15-122575 | 1.240   | 31.50 | 15-125090 |
| 800                   | *                    | *     | *        | 1.215  | 30.86 | 15-122560 | 1.265  | 32.13 | 15-127575 | 1.290   | 32.77 | 15-130090 |
| 900                   | *                    | *     | *        | 1.290  | 32.77 | 15-130060 | 1.315  | 33.40 | 15-132575 | 1.365   | 34.67 | 15-137590 |
| 1000                  | *                    | *     | *        | 1.340  | 34.04 | 15-135060 | 1.365  | 34.67 | 15-137575 | 1.390   | 35.31 | 15-140090 |



**Compressed Strand Conductor**

| CONDUCTOR<br>SIZE AWG | INSULATION THICKNESS |       |          |        |       |           |        |       |           |         |       |           |
|-----------------------|----------------------|-------|----------|--------|-------|-----------|--------|-------|-----------|---------|-------|-----------|
|                       | 60 MIL               |       |          | 80 MIL |       |           | 95 MIL |       |           | 110 MIL |       |           |
|                       | Max.                 | O.D.  | Part     | Max.   | O.D.  | Part      | Max.   | O.D.  | Part      | Max.    | O.D.  | Part      |
|                       | (in)                 | (mm)  | Number   | (in)   | (mm)  | Number    | (in)   | (mm)  | Number    | (in)    | (mm)  | Number    |
| 1/0                   | .490                 | 12.45 | 15-50040 | .540   | 13.72 | 15-55060  | .590   | 14.99 | 15-60075  | *       | *     | *         |
| 2/0                   | .540                 | 13.72 | 15-55040 | .590   | 14.99 | 15-60060  | .615   | 15.62 | 15-62575  | *       | *     | *         |
| 3/0                   | .590                 | 14.99 | 15-60040 | .640   | 16.26 | 15-65060  | .665   | 16.89 | 15-67575  | *       | *     | *         |
| 4/0                   | .665                 | 16.89 | 15-67540 | .690   | 17.53 | 15-70060  | .740   | 18.80 | 15-75075  | *       | *     | *         |
| MCM                   |                      |       |          |        |       |           |        |       |           |         |       |           |
| 250                   | *                    | *     | *        | .740   | 18.80 | 15-75060  | .765   | 19.43 | 15-77575  | .815    | 20.70 | 15-82590  |
| 350                   | *                    | *     | *        | .840   | 21.34 | 15-85060  | .890   | 22.61 | 15-90075  | .915    | 23.27 | 15-92590  |
| 500                   | *                    | *     | *        | .965   | 24.51 | 15-97560  | 1.015  | 25.78 | 15-102575 | 1.040   | 26.42 | 15-105090 |
| 600                   | *                    | *     | *        | 1.065  | 27.05 | 15-107560 | 1.090  | 27.69 | 15-110075 | 1.115   | 28.32 | 15-112590 |
| 700                   | *                    | *     | *        | 1.140  | 28.96 | 15-115060 | 1.165  | 29.39 | 15-117575 | 1.190   | 30.23 | 15-120090 |
| 750                   | *                    | *     | *        | 1.165  | 19.59 | 15-117560 | 1.190  | 30.23 | 15-120075 | 1.215   | 30.86 | 15-122590 |
| 800                   | *                    | *     | *        | 1.190  | 30.23 | 15-120060 | 1.215  | 32.86 | 15-122575 | 1.265   | 32.13 | 15-127590 |
| 900                   | *                    | *     | *        | 1.240  | 32.50 | 15-125060 | 1.290  | 32.77 | 15-130075 | 1.315   | 33.40 | 15-132590 |
| 1000                  | *                    | *     | *        | 1.315  | 33.40 | 15-132560 | 1.340  | 34.04 | 15-135075 | 1.365   | 34.67 | 15-137590 |



**Compact Strand Conductor**

| CONDUCTOR<br>SIZE AWG | INSULATION THICKNESS |       |          |        |       |           |        |       |           |         |       |           |
|-----------------------|----------------------|-------|----------|--------|-------|-----------|--------|-------|-----------|---------|-------|-----------|
|                       | 60 MIL               |       |          | 80 MIL |       |           | 95 MIL |       |           | 110 MIL |       |           |
|                       | Max.                 | O.D.  | Part     | Max.   | O.D.  | Part      | Max.   | O.D.  | Part      | Max.    | O.D.  | Part      |
|                       | (in)                 | (mm)  | Number   | (in)   | (mm)  | Number    | (in)   | (mm)  | Number    | (in)    | (mm)  | Number    |
| 1/0                   | .465                 | 11.81 | 15-47540 | .515   | 13.08 | 15-52560  | .565   | 14.35 | 15-57575  | *       | *     | *         |
| 2/0                   | .515                 | 13.08 | 15-52540 | .565   | 14.25 | 15-57560  | .590   | 14.99 | 15-60075  | *       | *     | *         |
| 3/0                   | .565                 | 14.35 | 15-57540 | .615   | 15.62 | 15-62560  | .640   | 16.26 | 15-65075  | *       | *     | *         |
| 4/0                   | .615                 | 15.62 | 15-62540 | .665   | 16.89 | 15-67560  | .690   | 17.53 | 15-70075  | *       | *     | *         |
| MCM                   |                      |       |          |        |       |           |        |       |           |         |       |           |
| 250                   | *                    | *     | *        | .715   | 18.16 | 15-72560  | .740   | 18.80 | 15-75075  | .790    | 20.07 | 15-80090  |
| 350                   | *                    | *     | *        | .790   | 20.07 | 15-80060  | .840   | 21.34 | 15-85075  | .865    | 21.97 | 15-87590  |
| 500                   | *                    | *     | *        | .915   | 23.27 | 15-92560  | .965   | 24.51 | 15-97575  | .990    | 25.15 | 15-100090 |
| 600                   | *                    | *     | *        | 1.065  | 25.78 | 15-102560 | 1.040  | 26.42 | 15-105075 | 1.090   | 27.69 | 15-110090 |
| 700                   | *                    | *     | *        | 1.015  | 27.05 | 15-107560 | 1.090  | 27.69 | 15-110075 | 1.140   | 28.96 | 15-115090 |
| 750                   | *                    | *     | *        | 1.065  | 27.69 | 15-110060 | 1.140  | 28.96 | 15-115075 | 1.165   | 29.59 | 15-117590 |
| 800                   | *                    | *     | *        | 1.090  | 28.96 | 15-115060 | 1.165  | 29.59 | 15-117575 | 1.265   | 30.23 | 15-120090 |
| 900                   | *                    | *     | *        | 1.190  | 30.23 | 15-120060 | 1.215  | 30.86 | 15-122575 | 1.190   | 32.13 | 15-127590 |
| 1000                  | *                    | *     | *        | 1.265  | 32.13 | 15-127560 | 1.290  | 32.77 | 15-130075 | 1.315   | 33.40 | 15-132590 |



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