

Electrical
Contractor's

Labor Units Manual

EMT CONDUIT & CONNECTORS

LABOR UNITS

SIZE CONDITIONS EASY AVERAGE DIFFICULT REMODEL OLD WORK PER

EMT THINWALL CONDUIT



| | | | | | | | |
|--------|--|-------|-------|-------|-------|-------|---|
| 1/2" | | 2.75 | 3.25 | 3.75 | 4.13 | 4.54 | C |
| 3/4" | | 3.00 | 3.50 | 4.00 | 4.40 | 4.84 | C |
| 1" | | 3.50 | 4.00 | 4.50 | 4.95 | 5.45 | C |
| 1 1/4" | | 4.00 | 4.50 | 5.00 | 5.50 | 6.05 | C |
| 1 1/2" | | 5.00 | 5.50 | 6.00 | 6.60 | 7.26 | C |
| 2" | | 6.00 | 7.00 | 8.00 | 8.80 | 9.68 | C |
| 2 1/2" | | 8.00 | 9.00 | 10.00 | 11.00 | 12.10 | C |
| 3" | | 9.00 | 10.00 | 11.00 | 12.10 | 13.31 | C |
| 3 1/2" | | 10.00 | 11.00 | 12.00 | 13.20 | 14.52 | C |
| 4" | | 11.00 | 12.00 | 13.00 | 14.30 | 15.73 | C |

EMT THINWALL CONDUIT ELBOWS



| | | | | | | | |
|--------|--|------|------|------|------|------|---|
| 1 1/4" | | 0.07 | 0.10 | 0.13 | 0.14 | 0.16 | E |
| 1 1/2" | | 0.07 | 0.10 | 0.13 | 0.14 | 0.16 | E |
| 2" | | 0.11 | 0.15 | 0.19 | 0.21 | 0.23 | E |
| 2 1/2" | | 0.15 | 0.20 | 0.25 | 0.28 | 0.30 | E |
| 3" | | 0.17 | 0.25 | 0.32 | 0.35 | 0.39 | E |
| 3 1/2" | | 0.23 | 0.30 | 0.37 | 0.41 | 0.45 | E |
| 4" | | 0.27 | 0.35 | 0.43 | 0.47 | 0.52 | E |

EMT CONNECTORS SET SCREW TYPE



| | | | | | | | |
|--------|--|------|------|------|------|------|---|
| 1/2" | | 0.03 | 0.05 | 0.07 | 0.08 | 0.08 | E |
| 3/4" | | 0.04 | 0.06 | 0.08 | 0.09 | 0.10 | E |
| 1" | | 0.05 | 0.07 | 0.09 | 0.10 | 0.11 | E |
| 1 1/4" | | 0.07 | 0.10 | 0.13 | 0.14 | 0.16 | E |
| 1 1/2" | | 0.07 | 0.10 | 0.13 | 0.14 | 0.16 | E |
| 2" | | 0.10 | 0.15 | 0.20 | 0.22 | 0.24 | E |
| 2 1/2" | | 0.15 | 0.20 | 0.25 | 0.28 | 0.30 | E |
| 3" | | 0.18 | 0.25 | 0.32 | 0.35 | 0.39 | E |
| 3 1/2" | | 0.23 | 0.30 | 0.37 | 0.41 | 0.45 | E |
| 4" | | 0.28 | 0.35 | 0.42 | 0.46 | 0.51 | E |

EMT CONNECTORS COMPRESSION TYPE



| | | | | | | | |
|--------|--|------|------|------|------|------|---|
| 1/2" | | 0.04 | 0.06 | 0.08 | 0.09 | 0.10 | E |
| 3/4" | | 0.05 | 0.07 | 0.09 | 0.10 | 0.11 | E |
| 1" | | 0.06 | 0.08 | 0.10 | 0.11 | 0.12 | E |
| 1 1/4" | | 0.09 | 0.12 | 0.15 | 0.17 | 0.18 | E |
| 1 1/2" | | 0.09 | 0.12 | 0.15 | 0.17 | 0.18 | E |
| 2" | | 0.13 | 0.18 | 0.23 | 0.25 | 0.28 | E |
| 2 1/2" | | 0.13 | 0.18 | 0.23 | 0.25 | 0.28 | E |
| 3" | | 0.24 | 0.30 | 0.36 | 0.40 | 0.44 | E |
| 3 1/2" | | 0.28 | 0.35 | 0.42 | 0.46 | 0.51 | E |
| 4" | | 0.33 | 0.40 | 0.47 | 0.52 | 0.57 | E |





SNAP TIGHT EMT CONNECTORS



| | | | | | | | |
|------|--|------|------|------|------|------|---|
| 1/2" | | 0.02 | 0.06 | 0.08 | 0.09 | 0.10 | E |
| 3/4" | | 0.03 | 0.07 | 0.09 | 0.10 | 0.11 | E |

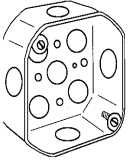
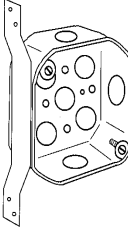
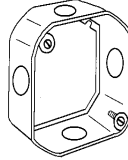
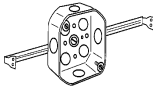
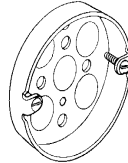

LOCKNUTS BUSHINGS

LABOR UNITS

| SIZE | CONDITIONS | EASY | AVERAGE | DIFFICULT | REMODEL | OLD WORK PER | |
|---|------------|------|---------|-----------|---------|--------------|---|
| SEALING LOCKNUTS | | | | | | | |
|  | 1/2" | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | E |
| | 3/4" | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | E |
| | 1" | 0.04 | 0.05 | 0.08 | 0.09 | 0.10 | E |
| | 1 1/4" | 0.05 | 0.07 | 0.09 | 0.10 | 0.11 | E |
| | 1 1/2" | 0.05 | 0.07 | 0.09 | 0.10 | 0.11 | E |
| | 2" | 0.06 | 0.09 | 0.12 | 0.13 | 0.15 | E |
| | 2 1/2" | 0.09 | 0.12 | 0.15 | 0.17 | 0.18 | E |
| | 3" | 0.12 | 0.15 | 0.18 | 0.20 | 0.22 | E |
| | 3 1/2" | 0.14 | 0.17 | 0.20 | 0.22 | 0.24 | E |
| | 4" | 0.16 | 0.19 | 0.22 | 0.24 | 0.27 | E |
| | 5" | 0.18 | 0.21 | 0.24 | 0.26 | 0.29 | E |
| | 6" | 0.20 | 0.23 | 0.26 | 0.29 | 0.31 | E |
| BUSHINGS | | | | | | | |
|  | 1/2" | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | E |
| | 3/4" | 0.03 | 0.04 | 0.05 | 0.06 | 0.06 | E |
| | 1" | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | E |
| | 1 1/4" | 0.06 | 0.08 | 0.10 | 0.11 | 0.12 | E |
| | 1 1/2" | 0.06 | 0.08 | 0.10 | 0.11 | 0.12 | E |
| | 2" | 0.07 | 0.10 | 0.13 | 0.14 | 0.16 | E |
| | 2 1/2" | 0.09 | 0.12 | 0.15 | 0.17 | 0.18 | E |
| | 3" | 0.12 | 0.15 | 0.18 | 0.20 | 0.22 | E |
| | 3 1/2" | 0.15 | 0.19 | 0.23 | 0.25 | 0.28 | E |
| | 4" | 0.20 | 0.25 | 0.30 | 0.33 | 0.36 | E |
| | 5" | 0.25 | 0.30 | 0.35 | 0.39 | 0.42 | E |
| | 6" | 0.30 | 0.35 | 0.40 | 0.44 | 0.48 | E |
| BUSHINGS GROUNDING TYPE | | | | | | | |
|  | 1/2" | 0.04 | 0.06 | 0.08 | 0.09 | 0.10 | E |
| | 3/4" | 0.06 | 0.08 | 0.10 | 0.11 | 0.12 | E |
| | 1" | 0.08 | 0.10 | 0.12 | 0.13 | 0.15 | E |
| | 1 1/4" | 0.14 | 0.16 | 0.18 | 0.20 | 0.22 | E |
| | 1 1/2" | 0.14 | 0.16 | 0.18 | 0.20 | 0.22 | E |
| | 2" | 0.16 | 0.20 | 0.24 | 0.26 | 0.29 | E |
| | 2 1/2" | 0.20 | 0.24 | 0.28 | 0.31 | 0.34 | E |
| | 3" | 0.25 | 0.30 | 0.35 | 0.39 | 0.42 | E |
| | 3 1/2" | 0.35 | 0.40 | 0.45 | 0.50 | 0.54 | E |
| | 4" | 0.40 | 0.50 | 0.60 | 0.66 | 0.73 | E |
| | 5" | 0.50 | 0.60 | 0.70 | 0.77 | 0.85 | E |
| | 6" | 0.60 | 0.70 | 0.80 | 0.88 | 0.97 | E |
| INSULATING SLEEVES | | | | | | | |
|  | 1/2" | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | E |
| | 3/4" | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | E |
| | 1" | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | E |
| | 1 1/4" | 0.06 | 0.07 | 0.08 | 0.08 | 0.09 | E |
| | 1 1/2" | 0.06 | 0.07 | 0.08 | 0.08 | 0.09 | E |
| | 2" | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | E |
| | 2 1/2" | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | E |
| | 3" | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | E |
| | 3 1/2" | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | E |
| | 4" | 0.11 | 0.12 | 0.13 | 0.15 | 0.16 | E |
| | 5" | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | E |
| | 6" | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | E |

OCTAGON BOXES

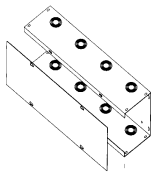
LABOR UNITS

| SIZE | CONDITIONS | EASY | AVERAGE | DIFFICULT | REMODEL | OLD WORK PER | |
|---|----------------------|------|---------|-----------|---------|--------------|--------|
|  | OCTAGON BOX | | | | | | |
| | 1/2" KO | | 0.17 | 0.20 | 0.23 | 0.25 | 0.28 E |
| | 3/4" KO | | 0.17 | 0.20 | 0.23 | 0.25 | 0.28 E |
| | for Romex | | 0.17 | 0.20 | 0.23 | 0.25 | 0.28 E |
|  | OCTAGON BOX W/BACKET | | | | | | |
| | 1/2" KO | | 0.15 | 0.18 | 0.21 | 0.23 | 0.25 E |
| | 3/4" KO | | 0.15 | 0.18 | 0.21 | 0.23 | 0.25 E |
| | for Romex | | 0.15 | 0.18 | 0.21 | 0.23 | 0.25 E |
|  | EXTENSION BOX | | | | | | |
| | 1/2" KO | | 0.20 | 0.25 | 0.30 | 0.33 | 0.36 E |
| | 3/4" KO | | 0.20 | 0.25 | 0.30 | 0.33 | 0.36 E |
|  | OCTAGON BOX & HANGER | | | | | | |
| | 1/2" KO | | 0.25 | 0.30 | 0.35 | 0.39 | 0.42 E |
| | 3/4" KO | | 0.25 | 0.30 | 0.35 | 0.39 | 0.42 E |
| | for Romex | | 0.25 | 0.30 | 0.35 | 0.39 | 0.42 E |
|  | SHALLOW BOX | | | | | | |
| | 1/2" KO | | 0.20 | 0.25 | 0.30 | 0.33 | 0.36 E |
| | for Romex | | 0.20 | 0.25 | 0.30 | 0.33 | 0.36 E |
|  | PLASTER RINGS | | | | | | |
| | 1/2" Raised | | 0.03 | 0.05 | 0.07 | 0.08 | 0.08 E |
| | 5/8" Raised | | 0.03 | 0.05 | 0.07 | 0.08 | 0.08 E |
| | 3/4" Raised | | 0.04 | 0.06 | 0.08 | 0.09 | 0.10 E |
| | 1" Raised | | 0.05 | 0.07 | 0.09 | 0.10 | 0.11 E |

WIREWAY - NEMA 1

LABOR UNITS

SIZE CONDITIONS EASY AVERAGE DIFFICULT REMODEL OLD WORK PER



NEMA 1

3" X 3"

| | | | | | | |
|-----------|------|------|------|------|------|---|
| 12" Long | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 | E |
| 24" Long | 0.54 | 0.60 | 0.66 | 0.73 | 0.80 | E |
| 36" Long | 0.63 | 0.70 | 0.77 | 0.85 | 0.93 | E |
| 48" Long | 0.81 | 0.90 | 0.99 | 1.09 | 1.20 | E |
| 60" Long | 0.99 | 1.10 | 1.21 | 1.33 | 1.46 | E |
| 120" Long | 1.26 | 1.40 | 1.54 | 1.69 | 1.86 | E |

4" X 4"

| | | | | | | |
|-----------|------|------|------|------|------|---|
| 12" Long | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 | E |
| 24" Long | 0.63 | 0.70 | 0.77 | 0.85 | 0.93 | E |
| 36" Long | 0.72 | 0.80 | 0.88 | 0.97 | 1.06 | E |
| 48" Long | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 | E |
| 60" Long | 1.08 | 1.20 | 1.32 | 1.45 | 1.60 | E |
| 120" Long | 1.35 | 1.50 | 1.65 | 1.82 | 2.00 | E |

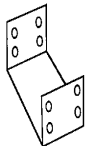
6" X 6"

| | | | | | | |
|-----------|------|------|------|------|------|---|
| 12" Long | 0.54 | 0.60 | 0.66 | 0.73 | 0.80 | E |
| 24" Long | 0.72 | 0.80 | 0.88 | 0.97 | 1.06 | E |
| 36" Long | 0.81 | 0.90 | 0.99 | 1.09 | 1.20 | E |
| 48" Long | 0.99 | 1.10 | 1.21 | 1.33 | 1.46 | E |
| 60" Long | 1.17 | 1.30 | 1.43 | 1.57 | 1.73 | E |
| 120" Long | 1.44 | 1.60 | 1.76 | 1.94 | 2.13 | E |

8" X 8"

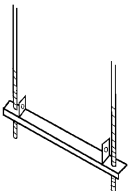
| | | | | | | |
|-----------|------|------|------|------|------|---|
| 12" Long | 0.63 | 0.70 | 0.77 | 0.85 | 0.93 | E |
| 24" Long | 0.81 | 0.90 | 0.99 | 1.09 | 1.20 | E |
| 36" Long | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 | E |
| 48" Long | 1.08 | 1.20 | 1.32 | 1.45 | 1.60 | E |
| 60" Long | 1.26 | 1.40 | 1.54 | 1.69 | 1.86 | E |
| 120" Long | 1.53 | 1.70 | 1.87 | 2.06 | 2.26 | E |

COUPLINGS



| | | | | | | |
|---------|------|------|------|------|------|---|
| 3" X 3" | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | E |
| 4" X 4" | 0.18 | 0.20 | 0.22 | 0.24 | 0.27 | E |
| 6" X 6" | 0.23 | 0.25 | 0.28 | 0.30 | 0.33 | E |
| 8" X 8" | 0.27 | 0.30 | 0.33 | 0.36 | 0.40 | E |

HANGERS



| | | | | | | |
|----------|------|------|------|------|------|---|
| 6" Wide | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | E |
| 12" Wide | 0.18 | 0.20 | 0.22 | 0.24 | 0.27 | E |
| 18" Wide | 0.23 | 0.25 | 0.28 | 0.30 | 0.33 | E |
| 24" Wide | 0.27 | 0.30 | 0.33 | 0.36 | 0.40 | E |

WIREMOLD G-3000**LABOR UNITS**

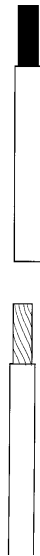
| SIZE | CONDITIONS | EASY | AVERAGE | DIFFICULT | REMODEL | OLD WORK PER |
|---|----------------------------------|------|---------|-----------|---------|--------------|
|  | Wiremold G-3000B | 6.30 | 7.00 | 7.70 | 8.47 | 9.32 C |
|  | Cover G-3000C | 1.80 | 2.00 | 2.20 | 2.42 | 2.66 C |
|  | Wire Clip G-3000WC | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 E |
|  | Coupling G-3001 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 E |
|  | Rigid Inside Coupling G-3001A | 0.14 | 0.15 | 0.17 | 0.19 | 0.21 E |
|  | Supporting Clip G-3003 | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 E |
|  | Cover Clip G-3006 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 E |
|  | Device Bracket G-3007C | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 E |

WIRE

LABOR UNITS

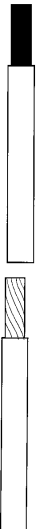
SIZE CONDITIONS EASY AVERAGE DIFFICULT REMODEL OLD WORK PER

COPPER WIRE



| | | | | | | | |
|----------|--|-------|-------|-------|-------|-------|---|
| #14 | | 4.50 | 5.00 | 5.50 | 6.05 | 6.66 | M |
| #12 | | 4.50 | 5.00 | 5.50 | 6.05 | 6.66 | M |
| #10 | | 5.40 | 6.00 | 6.60 | 7.26 | 7.99 | M |
| #8 | | 7.20 | 8.00 | 8.80 | 9.68 | 10.65 | M |
| #6 | | 8.10 | 9.00 | 9.90 | 10.89 | 11.98 | M |
| #4 | | 9.00 | 10.00 | 11.00 | 12.10 | 13.31 | M |
| #3 | | 10.80 | 12.00 | 13.20 | 14.52 | 15.97 | M |
| #2 | | 11.70 | 13.00 | 14.30 | 15.73 | 17.30 | M |
| #1 | | 12.60 | 14.00 | 15.40 | 16.94 | 18.63 | M |
| 1/0 | | 13.50 | 15.00 | 16.50 | 18.15 | 19.97 | M |
| 2/0 | | 14.40 | 16.00 | 17.60 | 19.36 | 21.30 | M |
| 3/0 | | 15.30 | 17.00 | 18.70 | 20.57 | 22.63 | M |
| 4/0 | | 16.20 | 18.00 | 19.80 | 21.78 | 23.96 | M |
| 250 MCM | | 18.00 | 20.00 | 22.00 | 24.20 | 26.62 | M |
| 300 MCM | | 20.70 | 23.00 | 25.30 | 27.83 | 30.61 | M |
| 350 MCM | | 23.40 | 26.00 | 28.60 | 31.46 | 34.61 | M |
| 400 MCM | | 26.10 | 29.00 | 31.90 | 35.09 | 38.60 | M |
| 500 MCM | | 28.80 | 32.00 | 35.20 | 38.72 | 42.59 | M |
| 600 MCM | | 32.40 | 36.00 | 39.60 | 43.56 | 47.92 | M |
| 750 MCM | | 36.00 | 40.00 | 44.00 | 48.40 | 53.24 | M |
| 1000 MCM | | 41.40 | 46.00 | 50.60 | 55.66 | 61.23 | M |

ALUMINUM WIRE



| | | | | | | | |
|----------|--|-------|-------|-------|-------|-------|---|
| #6 | | 7.29 | 8.10 | 8.91 | 9.80 | 10.78 | M |
| #4 | | 8.10 | 9.00 | 9.90 | 10.89 | 11.98 | M |
| #2 | | 10.53 | 11.70 | 12.87 | 14.16 | 15.57 | M |
| #1 | | 11.34 | 12.60 | 13.86 | 15.25 | 16.77 | M |
| 1/0 | | 12.15 | 13.50 | 14.85 | 16.34 | 17.97 | M |
| 2/0 | | 12.96 | 14.40 | 15.84 | 17.42 | 19.17 | M |
| 3/0 | | 13.77 | 15.30 | 16.83 | 18.51 | 20.36 | M |
| 4/0 | | 14.58 | 16.20 | 17.82 | 19.60 | 21.56 | M |
| 250 MCM | | 16.20 | 18.00 | 19.80 | 21.78 | 23.96 | M |
| 300 MCM | | 18.63 | 20.70 | 22.77 | 25.05 | 27.55 | M |
| 350 MCM | | 21.06 | 23.40 | 25.74 | 28.31 | 31.15 | M |
| 400 MCM | | 23.49 | 26.10 | 28.71 | 31.58 | 34.74 | M |
| 500 MCM | | 25.92 | 28.80 | 31.68 | 34.85 | 38.33 | M |
| 600 MCM | | 29.16 | 32.40 | 35.64 | 39.20 | 43.12 | M |
| 750 MCM | | 32.40 | 36.00 | 39.60 | 43.56 | 47.92 | M |
| 1000 MCM | | 37.26 | 41.40 | 45.54 | 50.09 | 55.10 | M |

LUGS

LABOR UNITS

SIZE CONDITIONS EASY AVERAGE DIFFICULT REMODEL OLD WORK PER



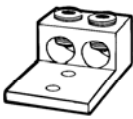
Sta-Kons

| | | | | | | | |
|-----|--|------|------|------|------|------|---|
| #18 | | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | E |
| #16 | | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | E |
| #14 | | 0.06 | 0.07 | 0.08 | 0.08 | 0.09 | E |
| #12 | | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | E |
| #10 | | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | E |
| #8 | | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | E |



Single Lug

| | | | | | | | |
|----------------|--|------|------|------|------|------|---|
| #6 | | 0.18 | 0.20 | 0.22 | 0.24 | 0.27 | E |
| #4 - #1 | | 0.23 | 0.25 | 0.28 | 0.30 | 0.33 | E |
| 1/0 - 4/0 | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 | E |
| 250 - 350 MCM | | 0.41 | 0.45 | 0.50 | 0.54 | 0.60 | E |
| 400 - 500 MCM | | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 | E |
| 600 - 700 MCM | | 0.50 | 0.55 | 0.61 | 0.67 | 0.73 | E |
| 750 - 1000 MCM | | 0.54 | 0.60 | 0.66 | 0.73 | 0.80 | E |



Double Lug

| | | | | | | | |
|----------------|--|------|------|------|------|------|---|
| #6 | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 | E |
| #4 - #1 | | 0.41 | 0.45 | 0.50 | 0.54 | 0.60 | E |
| 1/0 - 4/0 | | 0.54 | 0.60 | 0.66 | 0.73 | 0.80 | E |
| 250 - 350 MCM | | 0.68 | 0.75 | 0.83 | 0.91 | 1.00 | E |
| 400 - 500 MCM | | 0.77 | 0.85 | 0.94 | 1.03 | 1.13 | E |
| 600 - 700 MCM | | 0.86 | 0.95 | 1.05 | 1.15 | 1.26 | E |
| 750 - 1000 MCM | | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 | E |



Split Bolts

| | | | | | | | |
|----------------|--|------|------|------|------|------|---|
| #6 | | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 | E |
| #4 - #1 | | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 | E |
| 1/0 - 4/0 | | 0.63 | 0.70 | 0.77 | 0.85 | 0.93 | E |
| 250 - 350 MCM | | 0.77 | 0.85 | 0.94 | 1.03 | 1.13 | E |
| 400 - 500 MCM | | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 | E |
| 600 - 700 MCM | | 0.99 | 1.10 | 1.21 | 1.33 | 1.46 | E |
| 750 - 1000 MCM | | 1.08 | 1.20 | 1.32 | 1.45 | 1.60 | E |



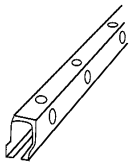
Hi-Press Lugs

| | | | | | | | |
|----------------|--|------|------|------|------|------|---|
| #6 | | 0.23 | 0.25 | 0.28 | 0.30 | 0.33 | E |
| #4 - #1 | | 0.27 | 0.30 | 0.33 | 0.36 | 0.40 | E |
| 1/0 - 4/0 | | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 | E |
| 250 - 350 MCM | | 0.50 | 0.55 | 0.61 | 0.67 | 0.73 | E |
| 400 - 500 MCM | | 0.54 | 0.60 | 0.66 | 0.73 | 0.80 | E |
| 600 - 700 MCM | | 0.59 | 0.65 | 0.72 | 0.79 | 0.87 | E |
| 750 - 1000 MCM | | 0.63 | 0.70 | 0.77 | 0.85 | 0.93 | E |

TROLLEY DUCT

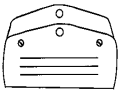
LABOR UNITS

SIZE CONDITIONS EASY AVERAGE DIFFICULT REMODEL OLD WORK PER



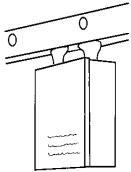
Trolley Duct

| | | | | | | | |
|-----|--|-------|-------|-------|-------|-------|---|
| 20A | | 7.20 | 8.00 | 8.80 | 9.68 | 10.65 | E |
| 30A | | 9.00 | 10.00 | 11.00 | 12.10 | 13.31 | E |
| 40A | | 10.80 | 12.00 | 13.20 | 14.52 | 15.97 | E |
| 50A | | 12.60 | 14.00 | 15.40 | 16.94 | 18.63 | E |
| 60A | | 14.40 | 16.00 | 17.60 | 19.36 | 21.30 | E |



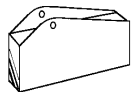
Trolley Duct Hanger

| | | | | | | | |
|-----|--|------|------|------|------|------|---|
| 20A | | 0.23 | 0.25 | 0.28 | 0.30 | 0.33 | E |
| 30A | | 0.27 | 0.30 | 0.33 | 0.36 | 0.40 | E |
| 40A | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 | E |
| 50A | | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 | E |
| 60A | | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 | E |



Trolley & Box

| | | | | | | | |
|-----|--|------|------|------|------|------|---|
| 20A | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 | E |
| 30A | | 0.36 | 0.40 | 0.44 | 0.48 | 0.53 | E |
| 40A | | 0.41 | 0.45 | 0.50 | 0.54 | 0.60 | E |
| 50A | | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 | E |
| 60A | | 0.50 | 0.55 | 0.61 | 0.67 | 0.73 | E |



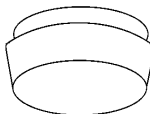
Trolley Feed Box

| | | | | | | | |
|-----|--|------|------|------|------|------|---|
| 20A | | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 | E |
| 30A | | 0.50 | 0.55 | 0.61 | 0.67 | 0.73 | E |
| 40A | | 0.54 | 0.60 | 0.66 | 0.73 | 0.80 | E |
| 50A | | 0.59 | 0.65 | 0.72 | 0.79 | 0.87 | E |
| 60A | | 0.63 | 0.70 | 0.77 | 0.85 | 0.93 | E |

INCANDESCENT FIXTURES

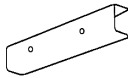
LABOR UNITS

SIZE CONDITIONS EASY AVERAGE DIFFICULT REMODEL OLD WORK PER



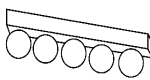
Drum Fixture

| | | | | | | |
|--------|------|------|------|------|------|---|
| 1-LAMP | 0.43 | 0.50 | 0.58 | 0.63 | 0.70 | E |
| 2-LAMP | 0.47 | 0.55 | 0.63 | 0.70 | 0.77 | E |
| 3-LAMP | 0.51 | 0.60 | 0.69 | 0.76 | 0.83 | E |
| 4-LAMP | 0.55 | 0.65 | 0.75 | 0.82 | 0.90 | E |



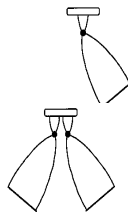
Bathroom Fixture

| | | | | | | |
|--------|------|------|------|------|------|---|
| 1-LAMP | 0.34 | 0.40 | 0.46 | 0.51 | 0.56 | E |
| 2-LAMP | 0.38 | 0.45 | 0.52 | 0.57 | 0.63 | E |
| 3-LAMP | 0.43 | 0.50 | 0.58 | 0.63 | 0.70 | E |
| 4-LAMP | 0.47 | 0.55 | 0.63 | 0.70 | 0.77 | E |



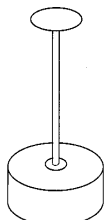
Light Bar Fixture

| | | | | | | |
|--------|------|------|------|------|------|---|
| 3-LAMP | 0.38 | 0.45 | 0.52 | 0.57 | 0.63 | E |
| 4-LAMP | 0.43 | 0.50 | 0.58 | 0.63 | 0.70 | E |
| 5-LAMP | 0.47 | 0.55 | 0.63 | 0.70 | 0.77 | E |
| 6-LAMP | 0.51 | 0.60 | 0.69 | 0.76 | 0.83 | E |



Adjustable Fixture

| | | | | | | |
|--------|------|------|------|------|------|---|
| 1-LAMP | 0.51 | 0.60 | 0.69 | 0.76 | 0.83 | E |
| 2-LAMP | 0.60 | 0.70 | 0.81 | 0.89 | 0.97 | E |

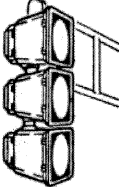
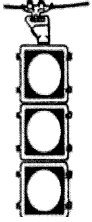
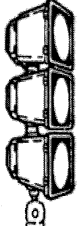
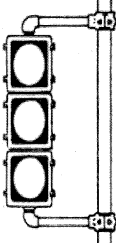



Suspended Drum Fixture

| | | | | | | |
|--------|------|------|------|------|------|---|
| 1-LAMP | 0.55 | 0.65 | 0.75 | 0.82 | 0.90 | E |
| 2-LAMP | 0.60 | 0.70 | 0.81 | 0.89 | 0.97 | E |
| 3-LAMP | 0.64 | 0.75 | 0.86 | 0.95 | 1.04 | E |
| 4-LAMP | 0.68 | 0.80 | 0.92 | 1.01 | 1.11 | E |

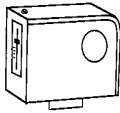
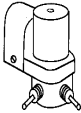
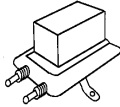
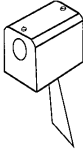
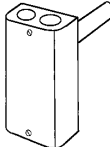
TRAFFIC LIGHTS

LABOR UNITS

| SIZE | CONDITIONS | EASY | AVERAGE | DIFFICULT | REMODEL | OLD WORK PER |
|---|---------------------|------|---------|-----------|---------|--------------|
|  | Boom Mounted | 4.00 | 4.50 | 6.00 | 6.60 | 7.26 E |
| BOOM MOUNT | | | | | | |
|  | Cable Mounted | 5.00 | 5.50 | 6.00 | 6.60 | 7.26 E |
| CABLE MOUNT | | | | | | |
|  | Pole Mounted | 3.00 | 3.25 | 3.75 | 4.13 | 4.54 E |
| POLE MOUNT | | | | | | |
|  | Bracket Mounted | 3.50 | 3.75 | 4.00 | 4.40 | 4.84 E |
| BRACKET MOUNT | | | | | | |
|  | Lighted Street Sign | 1.50 | 1.75 | 2.00 | 2.20 | 2.42 E |

TEMPERATURE CONTROL

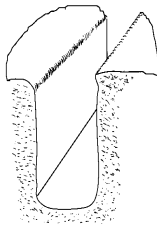
LABOR UNITS

| SIZE | CONDITIONS | EASY | AVERAGE | DIFFICULT | REMODEL | OLD WORK PER | |
|---|------------------------------|------|---------|-----------|---------|--------------|--------|
|  | Pressure/Electric Switch | | | | | | |
| | Wire Only | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 E |
| | Mount and Wire | | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 E |
|  | Electric/Pressure Switch | | | | | | |
| | Wire Only | | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 E |
| | Mount and Wire | | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 E |
|  | Differential Pressure Switch | | | | | | |
| | Wire Only | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 E |
| | Mount and Wire | | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 E |
|  | Air Flow Switch | | | | | | |
| | Wire Only | | 0.32 | 0.35 | 0.39 | 0.42 | 0.47 E |
| | Mount and Wire | | 0.90 | 1.00 | 1.10 | 1.21 | 1.33 E |
|  | Humidity Sensor | | | | | | |
| | Wire Only | | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 E |
| | Mount and Wire | | 1.13 | 1.25 | 1.38 | 1.51 | 1.66 E |

TRENCHING - HAND EXCAVATED

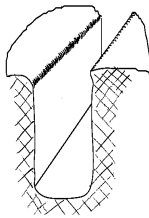
LABOR UNITS

SIZE EASY AVERAGE DIFFICULT REMODEL OLD WORK PER



Sandy Soil Condition

| | | | | | | |
|---------------------|-------|-------|-------|-------|-------|---|
| 6" Wide X 6" Deep | 1.40 | 1.75 | 2.10 | 2.31 | 2.54 | C |
| 6" Wide X 12" Deep | 2.40 | 3.00 | 3.60 | 3.96 | 4.36 | C |
| 6" Wide X 18" Deep | 4.00 | 5.00 | 6.00 | 6.60 | 7.26 | C |
| 6" Wide X 24" Deep | 5.60 | 7.00 | 8.40 | | | |
| 9" Wide X 6" Deep | 2.08 | 2.60 | 3.12 | 3.43 | 3.78 | C |
| 9" Wide X 12" Deep | 3.60 | 4.50 | 5.40 | 5.94 | 6.53 | C |
| 9" Wide X 18" Deep | 6.00 | 7.50 | 9.00 | 9.90 | 10.89 | C |
| 9" Wide X 24" Deep | 8.40 | 10.50 | 12.60 | 13.86 | 15.25 | C |
| 12" Wide X 6" Deep | 2.80 | 3.50 | 4.20 | 4.62 | 5.08 | C |
| 12" Wide X 12" Deep | 4.80 | 6.00 | 7.20 | 7.92 | 8.71 | C |
| 12" Wide X 18" Deep | 8.00 | 10.00 | 12.00 | 13.20 | 14.52 | C |
| 12" Wide X 24" Deep | 11.20 | 14.00 | 16.80 | 18.48 | 20.33 | C |
| 12" Wide X 30" Deep | 14.40 | 18.00 | 21.60 | 23.76 | 26.14 | C |


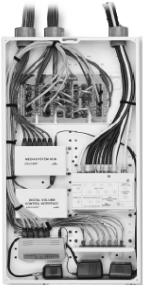








Clay Soil Condition

| | | | | | | |
|---------------------|-------|-------|-------|-------|-------|---|
| 6" Wide X 6" Deep | 2.08 | 2.60 | 3.12 | 3.43 | 3.78 | C |
| 6" Wide X 12" Deep | 3.60 | 4.50 | 5.40 | 5.94 | 6.53 | C |
| 6" Wide X 18" Deep | 6.00 | 7.50 | 9.00 | 9.90 | 10.89 | C |
| 6" Wide X 24" Deep | 8.40 | 10.50 | 12.60 | 13.86 | 15.25 | C |
| 9" Wide X 6" Deep | 3.12 | 3.90 | 4.68 | 5.15 | 5.66 | C |
| 9" Wide X 12" Deep | 5.40 | 6.75 | 8.10 | 8.91 | 9.80 | C |
| 9" Wide X 18" Deep | 9.00 | 11.25 | 13.50 | 14.85 | 16.34 | C |
| 9" Wide X 24" Deep | 12.60 | 15.75 | 18.90 | 20.79 | 22.87 | C |
| 12" Wide X 6" Deep | 4.16 | 5.20 | 6.24 | 6.86 | 7.55 | C |
| 12" Wide X 12" Deep | 7.20 | 9.00 | 10.80 | 11.88 | 13.07 | C |
| 12" Wide X 18" Deep | 12.00 | 15.00 | 18.00 | 19.80 | 21.78 | C |
| 12" Wide X 24" Deep | 16.80 | 21.00 | 25.20 | 27.72 | 30.49 | C |
| 12" Wide X 30" Deep | 21.60 | 27.00 | 32.40 | 35.64 | 39.20 | C |

STRUCTURED CABLING

LABOR UNITS

| SIZE | CONDITIONS | EASY | AVERAGE | DIFFICULT | REMODEL | OLD WORK PER | |
|---|--|------|---------|-----------|---------|--------------|---|
|  | STRUCTURED MEDIA CENTER 14" | 4.00 | 5.00 | 6.00 | 6.60 | 7.26 | E |
|  | 28" | 6.00 | 7.00 | 8.40 | 9.24 | 10.16 | E |
| | 42" | 8.00 | 10.00 | 12.00 | 13.20 | 14.52 | E |
| STRUCTURED CABLING PANELS | | | | | | | |
|  | BASIC PHONE & VIDEO 6-WAY VIDEO SPLITTER 4-PHONE LINES 9-PHONE LOCATIONS | 1.00 | 1.25 | 1.50 | 1.65 | 1.82 | E |
|  | BASIC HOME NETWORK CAT 5E VOICE/DATA MODULE 6-WAY VIDEO SPLITTER 4-PHONE LINES 9-PHONE LOCATIONS | 1.50 | 2.00 | 2.40 | 2.64 | 2.90 | E |
|  | ADVANCE PHONE & VIDEO 2 - CAT 5E VOICE/DATA MODULES 6-WAY VIDEO SPLITTER 4-PHONE LINES 6 - DATA AND/OR PHONE LOCATIONS | 1.75 | 2.25 | 2.70 | 2.97 | 3.27 | E |
|  | SMALL OFFICE UNIT 2 - CAT 5E VOICE/DATA MODULES 6-WAY VIDEO SPLITTER 4-PHONE LINES 12 - DATA AND/OR PHONE LOCATIONS | 2.25 | 3.00 | 3.60 | 3.96 | 4.36 | E |
|  | 18-PORT PANEL 3 - CAT 5E VOICE/DATA MODULES 4 - PHONE LINES 18 - DATA AND/OR PHONE LOCATIONS | 2.75 | 3.75 | 4.50 | 4.95 | 5.45 | E |
|  | 24-PORT PANEL 4 - CAT 5E VOICE/DATA MODULES 4 - PHONE LINES 24 - DATA AND/OR PHONE LOCATIONS | 2.25 | 3.00 | 3.60 | 3.96 | 4.36 | E |