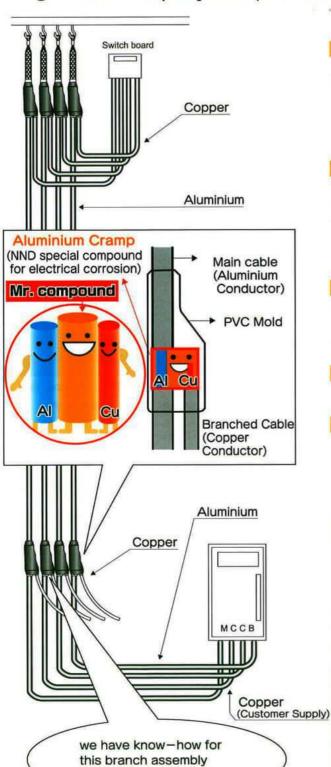
Aluminium Branch Cable MM2



(Prefabricated Branch Cable for Building)

Features of Aluminium Branch Cable

- (1) Cost & Time Saving
- 2 Easy Connection with Switchboard
- ③ Prefabrication is warranted by NND
- 4 Power company in Japan started using more than 20 years ago



under 20 years experience.

Advantages on Aluminium Branch Cable

①Cost & Time Saving

- a) Material cost can be saved.
- b) Easy installation can reduce labour cost at site. Because..
- · Prefabrication is made at NND factory
- · Easy handling owing to light weight

2 Easy connection with switchboard

Since Aluminium branch cable system uses copper branch cable, connection with a switchboard is in the same way as all copper branch cable system. Aluminium cable (Main Cable) is jointed to copper cable (Branch Cable) with a branch mold.

③ Prefabrication in NND factory

Molding is done by NND Factory, fully controlled by Japanese management, who warrants the quality and delivery on time.

4 Power company prefers NND products.

Reliable quality satisfies power company.

(5) As like long time favoured all copper branch cable,

Aluminium branch cable still boasts the belows.

- a) Airtight and waterproof
- b) Decrease shaft space
- c) Regular maintenance free

See the difference of the weight

· Lightness of Aluminium cable helps you to handle more easily on transportaion and at site.

Weight Comparison between Al & Cu

| Conductor | Apprx. Cable Weight(Kg./Km) | | | | |
|-----------|-----------------------------|--------|--|--|--|
| | Aluminium | Copper | | | |
| 120mm2 | 500 | 1,280 | | | |
| 150mm2 | 630 | 1,590 | | | |
| 185mm2 | 740 | 1,950 | | | |
| 240mm2 | 940 | 2,490 | | | |
| 300mm2 | 1,160 | 3,140 | | | |
| 400mm2 | 1,490 | 4,140 | | | |
| 500mm2 | 1,900 | 5,140 | | | |
| 630mm2 | 2,370 | 6,440 | | | |
| 800mm2 | 2,950 | 8,450 | | | |
| 1,000mm2 | 3,750 | 10,600 | | | |

Aluminium Cable Specification

| No.of | | Conductor | | Nominal Nominal Approx. Maximum Maximum Appro | | Approx. | Current | carrying | Current carrying | | | | |
|-------|-------------------|------------------|------------------|---|-----------------|---------------------|----------------------|-------------------|------------------|---------------|--------------------|--------------|------------------|
| core | Nominal sectional | Wire composition | Approx. outer | thickness of | thickness of | overall diameter | conductor resistance | packing length | cable weight | N. 17 (4) (4) | ity in air 30°C | | ty in air 0°C |
| | area | | diameter | insulation | sheath | | @20°C | | | (Spacing=1d) | (Spacing=2d) | (Spacing=1d) | (Spacing=2d) |
| | mm² | No./mm | mm | mm | mm | mm | Ω/km | m | kg/km | Α | A | A | A |
| 1 | 120 | CRS | 13.1 | 1.2 | 1.5 | 19 | 0.253 | 1200 | 500 | 285 | 340 | 260 | 310 |
| 1 | 150 | CRS | 14.7 | 1.4 | 1.6 | 21 | 0.206 | 1000 | 630 | 325 | 390 | 300 | 364 |
| 1 | 185 | CRS | 16.1 | 1.6 | 1.6 | 23 | 0.164 | 1000 | 740 | 402 | 450 | 356 | 453 |
| 1 | 240 | CRS | 18.6 | 1.7 | 1.7 | 26 | 0.125 | 1000 | 940 | 450 | 540 | 418 | 501 |
| 1 | 300 | CRS | 20.7 | 1.8 | 1.8 | 28.5 | 0.100 | 1000 | 1160 | 515 | 620 | 475 | 569 |
| 1 | 400 | CRS | 23.0 | 2.0 | 1.9 | 31 | 0.0778 | 1000 | 1490 | 605 | 720 | 569 | 662 |
| 1 | 500 | CRS | 26.6 | 2.2 | 2.0 | 35.5 | 0.0605 | 1000 | 1900 | 705 | 845 | 645 | 774 |
| 1 | 630 | CRS | 30.2 | 2.4 | 2.2 | 40 | 0.0469 | 500 | 2370 | 815 | 985 | 751 | 895 |
| 1 | 800 | CRS | 33.7 | 2.6 | 2.3 | 44 | 0.0367 | 500 | 2950 | 945 | 1150 | 871 | 1050 |
| 1 | 1000 | 91/3.74 | 41.14 | 2.8 | 2.4 | 52 | 0.0291 | 500 | 3750 | 1125 | 1380 | 1025 | 1260 |

CRS: Compacted round stranded

Tolerance of overall diameter of sheath: Up to 20mm: ±1.0mm

20mm and above: ±5%

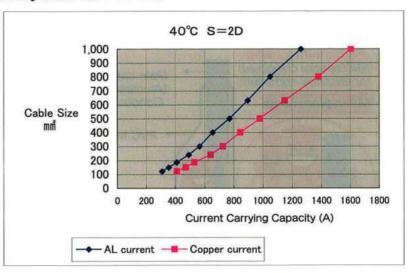
d=Cable overall diameter

[Comparison of Current Carrying Capacity @40℃ between Al & Cu cable]

*2 size-bigger Al cable than Cu is chosen to meet with the difference of Current Carrying Capacity between Al & Cu.

| | S=2D @40°C | | |
|-----------|------------|--------|--|
| Conductor | Aluminum | Copper | |
| 120mm2 | 310 | 410 | |
| 150mm2 | 364 | 470 | |
| 185mm2 | 453 | 530 | |
| 240mm2 | 501 | 640 | |
| 300mm2 | 569 | 725 | |
| 400mm2 | 662 | 845 | |
| 500mm2 | 774 | 980 | |
| 630mm2 | 895 | 1,150 | |
| 800mm2 | 1,050 | 1,380 | |
| 1,000mm2 | 1,260 | 1,605 | |





Main Cable (Aluminium)

XLPE/PVC Cable, in accordance with IEC60502-1, 60332-1

Branch Cable (Copper)

XLPE/PVC Cable, in accordance with IEC60502-1, 60332-1

Branch Joint

Conductor Joint: Sleeve in accordance with JIS C2801

Mold of Branch Section: Black coloured PVC in accordance with JIS C2801

Manufacturers)

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