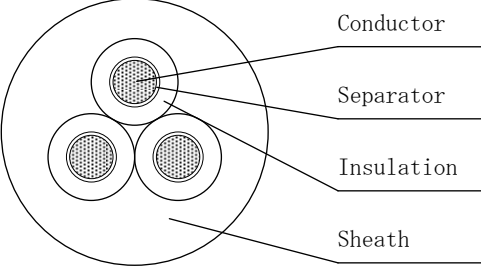


# S P E C I F I C A T I O N

Class 2 natural rubber insulated natural rubber sheathed flexible cable  
2 C T

M I T S U B O S H I C O . , L T D .

|   |                           |  |                      |
|---|---------------------------|--|----------------------|
| No.<br>RN-030000  | S P E C I F I C A T I O N |  | MITSUBOSHI CO., LTD. |
| Name of Manufacture<br>Class 2 natural rubber insulated natural rubber sheathed flexible cable  |                           |  |                      |
| Applicable Standards<br>JIS C 3005, JIS C 3152, JIS C 3327<br>Electrical appliance and material safety law, Technical standards for electrical installations  |                           |  |                      |
| <p>1. Scope</p> <p>This Specification covers quality level of <u>2CT</u><br/>used in power supply circuit of portable electrical machinery and apparatus not higher than 600V.</p> <p>2. Construction and materials</p> <p>(Construction)</p> <div style="text-align: center;">  <p>(3 cores)</p> </div> |                           |  |                      |
| 2.1   | Conductor                 | A stranded wire is composed of the tinned annealed copper wire specified in JIS C 3152.  |                      |
| 2.2   | Separator                 | A suitable separator is applied on the conductor.  |                      |
| 2.3   | Insulation                | Natural rubber compound<br>The average thickness of the insulation is not less than 90% of the value in Attached Tables. The minimum thickness of the insulation is not less than 80% of the value in Attached Tables. |                      |
| 2.4   | Identification of cores   | Identification of cores are made by the color of insulation. (Attached Tables 2)   |                      |
| 2.5   | Stranding of cores        | As the need arises, cores are stranded with a suitable filler.   |                      |
| 2.6   | Sheath                    | Natural rubber compound<br>The average thickness of sheath is not less than 90% of the value in Attached Tables. The minimum thickness of sheath is not less than 85% of the value in Attached Tables.                 |                      |

3. Characteristics

| Item   |            | Characteristics  | Test method                                   |
|--|------------|--|---|
| Appearance   |            | The surface be smooth and there is not a flaw in case of use.  | JIS C 3005 4.1                                |
| Construction   |            | It depends on the Attached Table with structure and size.  | JIS C 3005 4.3                                |
| Conductor resistance   |            | Not more than the value in Attached Table.   | JIS C 3005 4.4                                |
| Dielectric withstand voltage (in water)                      |            | Capable of withstanding 3000V for 1min.  | JIS C 3005 4.6 a)                             |
| Insulation resistance  |            | Not less than the value in Attached Table.   | JIS C 3005 4.7.1 a)                           |
| *Tensile properties  | Insulation | Tensile strength   | Not less than 6Mpa                            |
|  |            | Elongation   | Not less than 250%                            |
|  | Sheath     | Tensile strength   | Not less than 14Mpa                           |
|  |            | Elongation   | Not less than 430%                            |
| *Thermal aging   | Insulation | Tensile strength   | Not less than 60% of the value before heating |
|  |            | Elongation   |   |
|  | Sheath     | Tensile strength   | Not less than 50% of the value before heating |
|  |            | Elongation   |   |
| *Oil resistance  | Sheath     | Increase of outside diameter shall be 3 mm or under. However, for multicore cables with nominal sectional area of 22 mm <sup>2</sup> or over, the increase rate of outside diameter shall be 10% or under. | JIS C 3327 6.8.1                              |
| *Bending (nominal sectional area 38mm <sup>2</sup> or under) |            | No damage nor crack to develop, number of broken component wires in each core not to exceed 30%  | JIS C 3005 4.27.1 a)                          |
| *Abrasion  |            | Sheath not to be so abraded as to expose the insulation  | JIS C 3005 4.29                               |

※The quality characteristic to enforce inspection regularly with an in-house standard.

## 4. Marking on cable

The following information is continuously marked on cable.

- ① The symbol of the cable
- ② Nominal sectional area
- ③ Manufacture's name or abbreviation

Example: 2CT 4 × 2mm<sup>2</sup>


★ ★ <PS>E MITSUBOSHI 2CT 2mm<sup>2</sup>

## 5. Length and packaging

According to the Attached Table.

## 6. Marking on package

The following information is marked on package.

- ① The symbol of the cable and nominal sectional area
- ② Length
- ③ Year of manufacture or lot No.
- ④ Manufacture's name
- ⑤  J E T (only apply to Electrical Appliance and Material Safety Law)

Attached Table 1 : Construction, Size, Weight, and electric characteristic

0. 75 mm<sup>2</sup>

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20°C (Ω/km) | Insulation resistance 20°C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                  |                                    |                                    |
| 2              | (TA)<br>30/0.18 | 1.1                             | 1.1                      | 3.4                             | 1.8                      | 10.4                            | 135                  | 26.6                             | 1,000                              | 200m Bundle                        |
| 3              |                 |                                 |                          |                                 | 1.8                      | 10.9                            | 155                  |                                  |                                    |                                    |
| 4              |                 |                                 |                          |                                 | 1.8                      | 11.8                            | 180                  |                                  |                                    |                                    |

1. 25 mm<sup>2</sup>

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20°C (Ω/km) | Insulation resistance 20°C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                  |                                    |                                    |
| 2              | (TA)<br>50/0.18 | 1.5                             | 1.1                      | 3.8                             | 1.8                      | 11.2                            | 160                  | 16.0                             | 1,000                              | 200m Bundle                        |
| 3              |                 |                                 |                          |                                 | 1.8                      | 11.8                            | 185                  |                                  |                                    |                                    |
| 4              |                 |                                 |                          |                                 | 1.9                      | 13.0                            | 230                  |                                  |                                    |                                    |

2 mm<sup>2</sup>

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20°C (Ω/km) | Insulation resistance 20°C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                  |                                    |                                    |
| 2              | (TA)<br>37/0.26 | 1.8                             | 1.1                      | 4.1                             | 1.8                      | 11.8                            | 185                  | 10.2                             | 1,000                              | 200m Bundle                        |
| 3              |                 |                                 |                          |                                 | 1.9                      | 12.6                            | 225                  |                                  |                                    |                                    |
| 4              |                 |                                 |                          |                                 | 2.0                      | 13.9                            | 275                  |                                  |                                    |                                    |

3. 5 mm<sup>2</sup>

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20°C (Ω/km) | Insulation resistance 20°C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                  |                                    |                                    |
| 2              | (TA)<br>45/0.32 | 2.5                             | 1.1                      | 4.8                             | 1.9                      | 13.4                            | 255                  | 5.54                             | 1,000                              | 200m Bundle                        |
| 3              |                 |                                 |                          |                                 | 2.0                      | 14.3                            | 310                  |                                  |                                    |                                    |
| 4              |                 |                                 |                          |                                 | 2.1                      | 15.8                            | 385                  |                                  |                                    |                                    |

5. 5 mm<sup>2</sup>

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20°C (Ω/km) | Insulation resistance 20°C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                  |                                    |                                    |
| 2              | (TA)<br>70/0.32 | 3.1                             | 1.1                      | 5.4                             | 2.0                      | 14.8                            | 325                  | 3.56                             | 900                                | 200m Bundle                        |
| 3              |                 |                                 |                          |                                 | 2.1                      | 15.8                            | 405                  |                                  |                                    |                                    |
| 4              |                 |                                 |                          |                                 | 2.2                      | 17.4                            | 500                  |                                  |                                    |                                    |

**8 mm<sup>2</sup>**

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20 °C (Ω/km) | Insulation resistance 20 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|-----------------------------------|-------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                   |                                     |                                    |
| 2              | (TA)<br>50/0.45 | 3.7                             | 1.1                      | 6.0                             | 2.1                      | 16.2                            | 410                  | 2.52                              | 800                                 | 200m Drum                          |
| 3              |                 |                                 |                          |                                 | 2.2                      | 17.3                            | 510                  |                                   |                                     |                                    |
| 4              |                 |                                 |                          |                                 | 2.3                      | 19.1                            | 635                  |                                   |                                     |                                    |

**14 mm<sup>2</sup>**

| Number of Core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20 °C (Ω/km) | Insulation resistance 20 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|-----------------------------------|-------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                   |                                     |                                    |
| 2              | (TA)<br>88/0.45 | 4.9                             | 1.4                      | 7.8                             | 2.3                      | 20.2                            | 660                  | 1.43                              | 700                                 | 200m Drum                          |
| 3              |                 |                                 |                          |                                 | 2.4                      | 21.6                            | 830                  |                                   |                                     |                                    |
| 4              |                 |                                 |                          |                                 | 2.6                      | 24.0                            | 1,050                |                                   |                                     |                                    |

**22 mm<sup>2</sup>**

| Number of Core | Conductors        |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20 °C (Ω/km) | Insulation resistance 20 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|-------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|-----------------------------------|-------------------------------------|------------------------------------|
|                | Composition       | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                   |                                     |                                    |
| 2              | (TA)<br>7/20/0.45 | 7.0                             | 1.4                      | 10.0                            | 2.6                      | 25.2                            | 1,050                | 0.919                             | 600                                 | 200m Drum                          |
| 3              |                   |                                 |                          |                                 | 2.7                      | 27.0                            | 1,320                |                                   |                                     |                                    |
| 4              |                   |                                 |                          |                                 | 2.9                      | 29.9                            | 1,660                |                                   |                                     |                                    |

**30 mm<sup>2</sup>**

| Number of Core | Conductors        |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20 °C (Ω/km) | Insulation resistance 20 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|-------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|-----------------------------------|-------------------------------------|------------------------------------|
|                | Composition       | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                   |                                     |                                    |
| 2              | (TA)<br>7/27/0.45 | 8.1                             | 1.8                      | 11.9                            | 2.9                      | 29.6                            | 1,435                | 0.681                             | 600                                 | 200m Drum                          |
| 3              |                   |                                 |                          |                                 | 3.0                      | 31.6                            | 1,795                |                                   |                                     |                                    |
| 4              |                   |                                 |                          |                                 | 3.2                      | 35.1                            | 2,260                |                                   |                                     |                                    |

**38 mm<sup>2</sup>**

| Number of Core | Conductors        |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20 °C (Ω/km) | Insulation resistance 20 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|-------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|-----------------------------------|-------------------------------------|------------------------------------|
|                | Composition       | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                   |                                     |                                    |
| 2              | (TA)<br>7/34/0.45 | 9.1                             | 1.8                      | 12.9                            | 3.0                      | 31.8                            | 1,700                | 0.541                             | 600                                 | 200m Drum                          |
| 3              |                   |                                 |                          |                                 | 3.2                      | 34.2                            | 2,160                |                                   |                                     |                                    |
| 4              |                   |                                 |                          |                                 | 3.4                      | 37.9                            | 2,720                |                                   |                                     |                                    |

**5 0 mm<sup>2</sup>**

| Number of core | Conductors         |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 2 0 °C (Ω/km) | Insulation resistance 2 0 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|--------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|------------------------------------|--------------------------------------|------------------------------------|
|                | Composition        | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                    |                                      |                                    |
| 2              | (TA)<br>19/16/0.45 | 10.4                            | 1.8                      | 14.2                            | 3.2                      | 34.8                            | 2,055                | 0.423                              | 500                                  | 200m Drum                          |
| 3              |                    |                                 |                          |                                 | 3.3                      | 37.2                            | 2,590                |                                    |                                      |                                    |
| 4              |                    |                                 |                          |                                 | 3.6                      | 41.5                            | 3,285                |                                    |                                      |                                    |

**6 0 mm<sup>2</sup>**

| Number of Core | Conductors         |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 2 0 °C (Ω/km) | Insulation resistance 2 0 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|--------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|------------------------------------|--------------------------------------|------------------------------------|
|                | Composition        | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                    |                                      |                                    |
| 2              | (TA)<br>19/20/0.45 | 11.6                            | 1.8                      | 15.4                            | 3.4                      | 37.6                            | 2,450                | 0.339                              | 500                                  | 200m Drum                          |
| 3              |                    |                                 |                          |                                 | 3.5                      | 40.2                            | 3,110                |                                    |                                      |                                    |
| 4              |                    |                                 |                          |                                 | 3.8                      | 44.8                            | 3,945                |                                    |                                      |                                    |

**8 0 mm<sup>2</sup>**

| Number of Core | Conductors         |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 2 0 °C (Ω/km) | Insulation resistance 2 0 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|--------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|------------------------------------|--------------------------------------|------------------------------------|
|                | Composition        | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                    |                                      |                                    |
| 2              | (TA)<br>19/27/0.45 | 13.5                            | 2.3                      | 18.3                            | 3.7                      | 44.0                            | 3,345                | 0.250                              | 500                                  | 200m Drum                          |
| 3              |                    |                                 |                          |                                 | 3.9                      | 47.2                            | 4,250                |                                    |                                      |                                    |
| 4              |                    |                                 |                          |                                 | 4.2                      | 52.6                            | 5,385                |                                    |                                      |                                    |

**1 0 0 mm<sup>2</sup>**

| Number of Core | Conductors         |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 2 0 °C (Ω/km) | Insulation resistance 2 0 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|--------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|------------------------------------|--------------------------------------|------------------------------------|
|                | Composition        | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                    |                                      |                                    |
| 2              | (TA)<br>19/34/0.45 | 15.2                            | 2.3                      | 20.0                            | 4.0                      | 48.0                            | 4,055                | 0.199                              | 500                                  | 200m Drum                          |
| 3              |                    |                                 |                          |                                 | 4.2                      | 51.5                            | 5,175                |                                    |                                      |                                    |
| 4              |                    |                                 |                          |                                 | 4.5                      | 57.3                            | 6,555                |                                    |                                      |                                    |

**1 2 5 mm<sup>2</sup>**

| Number of Core | Conductors         |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 2 0 °C (Ω/km) | Insulation resistance 2 0 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|--------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|------------------------------------|--------------------------------------|------------------------------------|
|                | Composition        | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                    |                                      |                                    |
| 2              | (TA)<br>19/42/0.45 | 16.8                            | 2.3                      | 21.6                            | 4.2                      | 51.6                            | 4,795                | 0.161                              | 400                                  | 200m Drum                          |
| 3              |                    |                                 |                          |                                 | 4.4                      | 55.3                            | 6,135                |                                    |                                      |                                    |

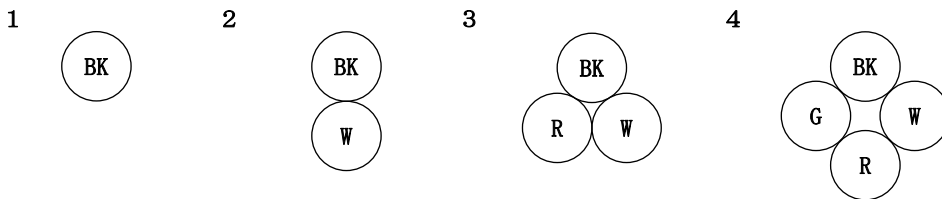
**1 5 0 mm<sup>2</sup>**

| Number of Core | Conductors         |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 2 0 °C (Ω/km) | Insulation resistance 2 0 °C (MΩ·km) | Standard Unit length And packaging |
|----------------|--------------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|------------------------------------|--------------------------------------|------------------------------------|
|                | Composition        | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                    |                                      |                                    |
| 2              | (TA)<br>27/34/0.45 | 18.7                            | 2.3                      | 23.5                            | 4.4                      | 55.8                            | 5,520                | 0.140                              | 400                                  | 200m Drum                          |
| 3              |                    |                                 |                          |                                 | 4.7                      | 60.0                            | 7,070                |                                    |                                      |                                    |

Cable of single core

| Number of core | Conductors      |                                 | Insulation               |                                 | Sheath                   | Overall diameter (approx.) (mm) | Approx. mass (kg/km) | Conductor resistance 20°C (Ω/km) | Insulation resistance 20°C (MQ·km) | Standard Unit length And packaging |
|----------------|-----------------|---------------------------------|--------------------------|---------------------------------|--------------------------|---------------------------------|----------------------|----------------------------------|------------------------------------|------------------------------------|
|                | Composition     | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) | Outside diameter (approx.) (mm) | Thickness (approx.) (mm) |                                 |                      |                                  |                                    |                                    |
| 0.75           | (TA) 30/0.18    | 1.1                             | 1.1                      | 3.4                             | 1.5                      | 6.4                             | 55                   | 25.8                             | 1,000                              | 200m Bundle                        |
| 1.25           | (TA) 50/0.18    | 1.5                             | 1.1                      | 3.8                             | 1.6                      | 7.0                             | 65                   | 15.5                             | 1,000                              |                                    |
| 2              | (TA) 37/0.26    | 1.8                             | 1.1                      | 4.1                             | 1.6                      | 7.3                             | 75                   | 9.91                             | 1,000                              |                                    |
| 3.5            | (TA) 45/0.32    | 2.5                             | 1.1                      | 4.8                             | 1.6                      | 8.0                             | 100                  | 5.38                             | 1,000                              |                                    |
| 5.5            | (TA) 70/0.32    | 3.1                             | 1.1                      | 5.4                             | 1.7                      | 8.8                             | 130                  | 3.46                             | 900                                |                                    |
| 8              | (TA) 50/0.45    | 3.7                             | 1.1                      | 6.0                             | 1.7                      | 9.4                             | 160                  | 2.45                             | 800                                |                                    |
| 14             | (TA) 88/0.45    | 4.9                             | 1.4                      | 7.8                             | 1.8                      | 11.4                            | 250                  | 1.39                             | 700                                |                                    |
| 22             | (TA) 7/20/0.45  | 7.0                             | 1.4                      | 10.0                            | 2.0                      | 14.0                            | 385                  | 0.892                            | 600                                | 200m Drum                          |
| 30             | (TA) 7/27/0.45  | 8.1                             | 1.8                      | 11.9                            | 2.1                      | 16.1                            | 515                  | 0.661                            | 600                                |                                    |
| 38             | (TA) 7/34/0.45  | 9.1                             | 1.8                      | 12.9                            | 2.2                      | 17.3                            | 615                  | 0.525                            | 600                                |                                    |
| 50             | (TA) 19/16/0.45 | 10.4                            | 1.8                      | 14.2                            | 2.2                      | 18.6                            | 730                  | 0.411                            | 500                                |                                    |
| 60             | (TA) 19/20/0.45 | 11.6                            | 1.8                      | 15.4                            | 2.3                      | 20.0                            | 875                  | 0.329                            | 500                                |                                    |
| 80             | (TA) 19/27/0.45 | 13.5                            | 2.3                      | 18.3                            | 2.5                      | 23.3                            | 1,185                | 0.243                            | 500                                |                                    |
| 100            | (TA) 19/34/0.45 | 15.2                            | 2.3                      | 20.0                            | 2.6                      | 25.2                            | 1,435                | 0.193                            | 500                                |                                    |
| 125            | (TA) 19/42/0.45 | 16.8                            | 2.3                      | 21.6                            | 2.7                      | 27.0                            | 1,710                | 0.156                            | 400                                |                                    |
| 150            | (TA) 27/34/0.45 | 18.7                            | 2.3                      | 23.5                            | 2.9                      | 29.3                            | 1,960                | 0.136                            | 400                                |                                    |
| 200            | (TA) 37/34/0.45 | 21.2                            | 2.9                      | 27.2                            | 3.1                      | 33.4                            | 2,675                | 0.0993                           | 400                                |                                    |
| 250            | (TA) 37/42/0.45 | 23.6                            | 2.9                      | 29.6                            | 3.3                      | 36.2                            | 3,220                | 0.0803                           | 400                                |                                    |
| 325            | (TA) 37/55/0.45 | 27.0                            | 2.9                      | 33.0                            | 3.5                      | 40.0                            | 4,085                | 0.0614                           | 400                                |                                    |

Attached Table 2 : Identification of cores



~Symbol of COLOR~

BK : Black

W : White

R : Red

G : Green



Attached Table 3 : A table of allowable current

Unit [A]

| Number of core \ Nominal Sectional area | Unit [A] |        |     |      |      |     |     |
|---|----------|--------|-----|------|------|-----|-----|
|   | 0. 7 5   | 1. 2 5 | 2   | 3. 5 | 5. 5 | 8   | 1 4 |
| 1                                       | 1 4      | 1 9    | 2 5 | 3 7  | 4 9  | 6 2 | 8 8 |
| 2                                       | 1 2      | 1 6    | 2 2 | 3 2  | 4 1  | 5 1 | 7 1 |
| 3                                       | 1 0      | 1 4    | 1 9 | 2 8  | 3 6  | 4 4 | 6 2 |
| 4                                       | 9        | 1 3    | 1 7 | 2 5  | 3 2  | 3 9 | 5 5 |

| Number of core \ Nominal Sectional area | Unit [A] |       |       |       |       |       |       |
|---|----------|-------|-------|-------|-------|-------|-------|
|   | 2 2      | 3 0   | 3 8   | 5 0   | 6 0   | 8 0   | 1 0 0 |
| 1                                       | 1 1 5    | 1 4 0 | 1 6 5 | 1 9 5 | 2 2 5 | 2 7 0 | 3 1 5 |
| 2                                       | 9 5      | 1 1 0 | 1 3 0 | 1 5 0 | 1 7 0 | 2 1 6 | 2 5 0 |
| 3                                       | 8 3      | 9 8   | 1 1 0 | 1 2 5 | 1 5 0 | 1 8 6 | 2 1 5 |
| 4                                       | 7 4      | 8 9   | 1 0 0 | 1 1 5 | 1 3 5 | 1 7 0 | 1 9 7 |

| Number of core \ Nominal Sectional area | Unit [A] |       |       |       |       |
|---|----------|-------|-------|-------|-------|
|   | 1 2 5    | 1 5 0 | 2 0 0 | 2 5 0 | 3 2 5 |
| 1                                       | 3 5 8    | 3 9 4 | 4 7 3 | 5 3 8 | 6 3 3 |
| 2                                       | 2 8 6    | 3 1 6 |       |       |       |
| 3                                       | 2 4 6    | 2 7 1 |       |       |       |