

## Fire Resistant Cable Characteristics

Round 600V (5-Core to 10-Core)

| Core Number | Conductor                  |                         |              | Thickness of Fire-resistant Layer (Note) | Thickness of Insulation | Thickness of Sheath | Cable O.D (Approx.) | Max. Conductor Resistance (20℃) | A.C. Test Voltage | Min. Insulation Resistance (20℃) | Standard Length |
|-------------|----------------------------|-------------------------|--------------|------------------------------------------|-------------------------|---------------------|---------------------|---------------------------------|-------------------|----------------------------------|-----------------|
|             | Nominal Cross Section Area | Number and Nominal Dia. | O.D (Approx) |                                          |                         |                     |                     |                                 |                   |                                  |                 |
| C           | mm <sup>2</sup>            | Num. / mm               | mm           | mm                                       | mm                      | mm                  | mm                  | Ω /Km                           | Kv/1min           | M Ω Km                           | m               |
| 5           | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 13.0                | 23.3                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 13.5                | 16.1                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.5                 | 14.5                | 9.10                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.5                 | 15.5                | 5.76                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.5                 | 18.5                | 3.42                            | 1.5               | 2500                             | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.5                 | 15.0                | 9.42                            | 1.5               | 2500                             | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.5                 | 17.0                | 5.30                            | 1.5               | 2500                             | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.5                 | 20.0                | 3.40                            | 1.5               | 2500                             | 300             |
| 6           | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 14.0                | 23.3                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 15.0                | 16.1                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.5                 | 16.0                | 9.10                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.5                 | 17.0                | 5.76                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.5                 | 20.5                | 3.42                            | 1.5               | 2500                             | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.5                 | 16.5                | 9.42                            | 1.5               | 2500                             | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.5                 | 18.5                | 5.30                            | 1.5               | 2500                             | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.5                 | 21.5                | 3.40                            | 1.5               | 2500                             | 300             |
| 7           | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 14.0                | 23.3                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 15.0                | 16.1                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.5                 | 16.0                | 9.10                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.5                 | 17.0                | 5.76                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.5                 | 20.5                | 3.42                            | 1.5               | 2500                             | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.5                 | 16.5                | 9.42                            | 1.5               | 2500                             | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.5                 | 18.5                | 5.30                            | 1.5               | 2500                             | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.5                 | 21.5                | 3.40                            | 1.5               | 2500                             | 300             |
| 8           | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 15.0                | 23.3                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 16.0                | 16.1                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.5                 | 17.0                | 9.10                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.5                 | 18.5                | 5.76                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.6                 | 22.0                | 3.42                            | 1.5               | 2500                             | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.5                 | 18.0                | 9.42                            | 1.5               | 2500                             | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.5                 | 20.0                | 5.30                            | 1.5               | 2500                             | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.6                 | 23.0                | 3.40                            | 1.5               | 2500                             | 300             |
| 9           | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 16.0                | 23.3                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 17.0                | 16.1                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.5                 | 18.5                | 9.10                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.5                 | 20.0                | 5.76                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.6                 | 23.5                | 3.42                            | 1.5               | 2500                             | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.5                 | 19.5                | 9.42                            | 1.5               | 2500                             | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.6                 | 21.5                | 5.30                            | 1.5               | 2500                             | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.7                 | 25.5                | 3.40                            | 1.5               | 2500                             | 300             |
| 10          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 18.0                | 23.3                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 19.0                | 16.1                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.5                 | 20.5                | 9.10                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.6                 | 22.0                | 5.76                            | 1.5               | 2500                             | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.7                 | 26.0                | 3.42                            | 1.5               | 2500                             | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.6                 | 21.0                | 9.42                            | 1.5               | 2500                             | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.6                 | 24.0                | 5.30                            | 1.5               | 2500                             | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.8                 | 28.5                | 3.40                            | 1.5               | 2500                             | 300             |

Note: Thickness of Fire-Resistant is for reference only, it can be adjusted to follow fire resistant level by manufacturers.

## Round 600V (12-Core to 30-Core)

| Core Number | Conductor                  |                         |              | Thickness of Fire-resistant Layer (Note) | Thickness of Insulation | Thickness of Sheath | Cable O.D (Approx.) | Conductor Resistance (20°C) | Test Voltage | Insulation Resistance (20°C) | Standard Length |
|-------------|----------------------------|-------------------------|--------------|------------------------------------------|-------------------------|---------------------|---------------------|-----------------------------|--------------|------------------------------|-----------------|
|             | Nominal Cross Section Area | Number and Nominal Dia. | O.D (Approx) |                                          |                         |                     |                     |                             |              |                              |                 |
| C           | mm <sup>2</sup>            | Num. / mm               | mm           | mm                                       | mm                      | mm                  | mm                  | Ω /Km                       | Kv/1min      | M Ω Km                       | m               |
| 12          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 18.0                | 23.3                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.5                 | 19.0                | 16.1                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.6                 | 21.0                | 9.10                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.6                 | 23.0                | 5.76                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.8                 | 27.0                | 3.42                        | 1.5          | 2500                         | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.6                 | 22.0                | 9.42                        | 1.5          | 2500                         | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.7                 | 25.0                | 5.30                        | 1.5          | 2500                         | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 1.9                 | 29.5                | 3.40                        | 1.5          | 2500                         | 300             |
| 16          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 20.5                | 23.3                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.6                 | 21.5                | 16.1                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.6                 | 23.5                | 9.10                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.7                 | 26.0                | 5.76                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 1.9                 | 31.0                | 3.42                        | 1.5          | 2500                         | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.7                 | 25.0                | 9.42                        | 1.5          | 2500                         | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.8                 | 28.0                | 5.30                        | 1.5          | 2500                         | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 2.0                 | 33.0                | 3.40                        | 1.5          | 2500                         | 300             |
| 19          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.5                 | 22.0                | 23.3                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.6                 | 23.0                | 16.1                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.7                 | 25.0                | 9.10                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 1.8                 | 27.0                | 5.76                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 2.0                 | 32.5                | 3.42                        | 1.5          | 2500                         | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.7                 | 26.0                | 9.42                        | 1.5          | 2500                         | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 1.9                 | 29.0                | 5.30                        | 1.5          | 2500                         | 300             |
|             | 5.5                        | 7/1.0                   | 3.0          | 0.4                                      | 1.0                     | 2.1                 | 35.0                | 3.40                        | 1.5          | 2500                         | 300             |
| 24          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.7                 | 25.5                | 23.3                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.8                 | 27.0                | 16.1                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.9                 | 29.5                | 9.10                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 2.0                 | 32.0                | 5.76                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 2.0                 | 38.5                | 3.42                        | 1.5          | 2500                         | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 1.9                 | 31.0                | 9.42                        | 1.5          | 2500                         | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 2.1                 | 35.0                | 5.30                        | 1.5          | 2500                         | 300             |
| 27          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.8                 | 26.0                | 23.3                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.8                 | 28.0                | 16.1                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.9                 | 29.0                | 9.10                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 2.0                 | 33.0                | 5.76                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 2.3                 | 40.0                | 3.42                        | 1.5          | 2500                         | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 2.0                 | 32.0                | 9.42                        | 1.5          | 2500                         | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 2.1                 | 36.0                | 5.30                        | 1.5          | 2500                         | 300             |
| 30          | -                          | 1/1.0                   | 1.0          | 0.4                                      | 0.8                     | 1.8                 | 28.0                | 23.3                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.2                   | 1.2          | 0.4                                      | 0.8                     | 1.8                 | 29.0                | 16.1                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/1.6                   | 1.6          | 0.4                                      | 0.8                     | 1.9                 | 31.0                | 9.10                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.0                   | 2.0          | 0.4                                      | 0.8                     | 2.0                 | 34.0                | 5.76                        | 1.5          | 2500                         | 300             |
|             | -                          | 1/2.6                   | 2.6          | 0.4                                      | 1.0                     | 2.3                 | 41.0                | 3.42                        | 1.5          | 2500                         | 300             |
|             | 2.0                        | 7/0.6                   | 1.8          | 0.4                                      | 0.8                     | 2.0                 | 33.0                | 9.42                        | 1.5          | 2500                         | 300             |
|             | 3.5                        | 7/0.8                   | 2.4          | 0.4                                      | 0.8                     | 2.1                 | 37.0                | 5.30                        | 1.5          | 2500                         | 300             |

Note: Thickness of Fire-Resistant is for reference only, it can be adjusted to follow fire resistant level by manufacturers.