



## Application

- Used in ADSL, VDSL applications at telecommunication networks.
- In places where human life, valuable materials and equipments need to be protected.

## Cable Construction

- 1 - Conductor : Electrolytic solid copper conductor.
- 2 - Insulation : Solid polyethylene insulation
- 3 - Stranding : Pair stranding, pairs are stranded into groups.
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper earthing wire, Al/PET tape, tinned copper braiding
- 6 - Outer Jacket : EN 50290-2-22. UV resistant PVC outer jacket. RAL 7035 (Grey)

## Technical Characteristics

| Conductor Resistance<br>Ω/km | Insulation Resistance<br>MΩxkm (500 V DC) | Mutual Capacitance<br>nF/km | Capacitance Unbalance | Dielectric Strength<br>V | Operating Voltage<br>V | Test Voltage<br>V | Capacitance Unbalance<br>pF/500m | Characteristic Impedance<br>Ω |
|------------------------------|---|-----------------------------|-----------------------|--------------------------|------------------------|-------------------|----------------------------------|-------------------------------|
| 146                          | 2000                                      | 56                          | %2                    | 1000                     | 250                    | 1200              | 200                              | 100±10                        |

## Mechanical Characteristics

| Bending Radius | Temperature Range<br>Operating |
|----------------|--------------------------------|
| 10xD mm        | -40°C~+70°C                    |

## Standards

| Flame Retardancy Test                               |
|---|
| IEC 60332-1-2.<br>VDE 0482-332-1-2.<br>EN 60332-1-2 |

## Electrical Properties

| Frequency<br>MHz | Insertion Loss<br>dB/100m (Max.) | Near-end Crosstalk (NEXT) Loss<br>dB (Min.) | Propagation Delay<br>5 n/m |
|------------------|----------------------------------|---|----------------------------|
| 1                | ≤30                              | ≥55   | ≤6                         |
| 10               | ≤100                             | ≥45   | ≤5.7                       |
| 16               | ≤110                             | ≥40   | -                          |
| 20               | ≤120                             | ≥38   | -                          |
| 30               | ≤160                             | ≥35   | -                          |

## JE-2Y(St)CY xDSL 26 AWG

| Part Number             | Pair Count | Conductor Diameter (mm) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
|-------------------------|------------|-------------------------|-----------------------------|-----------------------|------------------------|---------------------|
| 3.421.2.1.2.0040.0.0002 | 2          | 0.4                     | 4.1                         | 11.4                  | 25                     | 100/500/1000        |
| 3.421.2.1.2.0040.0.0004 | 4          | 0.4                     | 5.4                         | 19                    | 40                     | 100/500/1000        |
| 3.421.2.1.2.0040.0.0008 | 8          | 0.4                     | 7.1                         | 31.5                  | 63                     | 100/500/1000        |
| 3.421.2.1.2.0040.0.0012 | 12         | 0.4                     | 9.6                         | 45.8                  | 93                     | 100/500/1000        |
| 3.421.2.1.2.0040.0.0016 | 16         | 0.4                     | 11                          | 57.3                  | 114                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0020 | 20         | 0.4                     | 12                          | 69.4                  | 136                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0024 | 24         | 0.4                     | 13                          | 80.9                  | 161                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0032 | 32         | 0.4                     | 14                          | 101.2                 | 194                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0040 | 40         | 0.4                     | 15                          | 128                   | 237                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0048 | 48         | 0.4                     | 17                          | 150.8                 | 276                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0056 | 56         | 0.4                     | 17                          | 173.8                 | 314                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0064 | 64         | 0.4                     | 19                          | 195.1                 | 353                    | 100/500/1000        |
| 3.421.2.1.2.0040.0.0096 | 96         | 0.4                     | 22                          | 286.6                 | 503                    | 100/500/1000        |

## JE-2Y(St)CY xDSL 24 AWG

| Part Number             | Pair Count | Conductor Diameter (mm) | Approx. Cable Diameter (mm) | Copper Weight (kg/km) | Approx. Weight (kg/km) | Packing Lengths (m) |
|-------------------------|------------|-------------------------|-----------------------------|-----------------------|------------------------|---------------------|
| 3.421.2.1.2.0051.0.0002 | 2          | 0.51                    | 4.5                         | 15.6                  | 32                     | 100/500/1000        |
| 3.421.2.1.2.0051.0.0004 | 4          | 0.51                    | 6                           | 25.2                  | 50                     | 100/500/1000        |
| 3.421.2.1.2.0051.0.0008 | 8          | 0.51                    | 8                           | 44.4                  | 83                     | 100/500/1000        |
| 3.421.2.1.2.0051.0.0012 | 12         | 0.51                    | 11                          | 64.9                  | 118                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0016 | 16         | 0.51                    | 12                          | 82.8                  | 150                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0020 | 20         | 0.51                    | 14                          | 100.4                 | 180                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0024 | 24         | 0.51                    | 15                          | 122.9                 | 218                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0032 | 32         | 0.51                    | 16                          | 156.7                 | 266                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0040 | 40         | 0.51                    | 17                          | 192.1                 | 321                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0048 | 48         | 0.51                    | 19                          | 225.2                 | 374                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0056 | 56         | 0.51                    | 20                          | 257.6                 | 423                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0064 | 64         | 0.51                    | 21                          | 297.7                 | 484                    | 100/500/1000        |
| 3.421.2.1.2.0051.0.0096 | 96         | 0.51                    | 25                          | 430.4                 | 686                    | 100/500/1000        |