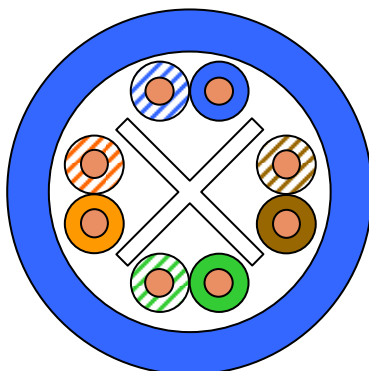


|  |  |            |
|--|--|------------|
| <b>UC400 23/1 4P</b><br>Installation Cable | J-2YY 4x2x0.56 (AWG 23)<br>100Ω Data Cable ISO/IEC 11801 CAT-6 | <b>UTP</b> |
|--|--|------------|

the right to alterations reserved



**Application:** Primary (Campus), Secondary (Riser), Tertiary (Horizontal)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;  
IEEE 802.5 16 MB; ISDN; TPDDI; ATM

**Standards:** EIA/TIA-568-B.2-1 6/2002.  
ISO/IEC 11801 2<sup>nd</sup> ed.; IEC 61156-5  
EN 50173; FDIS; EN 50288-6-1

**Fire rating**

**PVC:** IEC 60332-1

**FRNC:** IEC 60332-1; IEC 60754-2; IEC 61034;

**Construction**

|              |   |
|--------------|---|
| Conductor    | bare copper wire Ø 0.56 mm (AWG23)                                  |
| Insulation   | Polyethylene, Ø 1.0 mm  |
| Twisting     | 2 cores to the pair   |
| Cable lay up | 4 pairs to the core   |
| Sheath       | non metallic cross separator (spline)<br>PVC or FRNC, blue RAL 5012 |

**Technical Data**

| Product code | Designation    | Brand name         | Outer diameter<br>mm | Fire load |       | Weight<br>kg/km | Copper content<br>kg/km | Tensile force<br>N |
|--------------|----------------|--------------------|----------------------|-----------|-------|-----------------|-------------------------|--------------------|
|              |                |                    |                      | MJ/km     | kWh/m |                 |                         |                    |
| CD2685430    | J-2YY 4x2x0.56 | UC400 23/1 4P      | 6.2                  | 358       | 0.099 | 39              | 18                      | 80                 |
| CD7685420    | J-2YH 4x2x0.56 | UC400 23/1 4P FRNC |                      | 329       | 0.091 | 40              |                         |                    |

|  |  |            |
|--|--|------------|
| <b>UC400 23/1 4P</b><br>Installation Cable | J-2YY 4x2x0.56 (AWG 23)<br>100Ω Data Cable ISO/IEC 11801 CAT-6 | <b>UTP</b> |
|--|--|------------|

the right to alterations reserved

### Mechanical Properties

|                    |   |
|--------------------|---|
| Bending radius     | ≥ 20 mm without load<br>≥ 40 mm with load                                 |
| Temperature range, | during operation -20°C upto + 60°C<br>during installation 0°C upto + 50°C |

### Electrical Properties (at 20°C ± 5°C)

|  |               |
|--|---------------|
| DC loop resistance                     | ≤ 176 Ω /km   |
| Resistance unbalance                   | ≤ 2%          |
| Insulation resistance (500 V)          | ≥ 5000 MΩ *km |
| Capacitance at 800 Hz                  | Nom. 48 nF/km |
| Capacitance unbalance (pair to ground) | ≤ 1500 pF/km  |
| Characteristic impedance (1 - 100 MHz) | (100 ± 15) Ω  |
| (100 - 250 MHz)                        | (100 ± 22) Ω  |
| Nominal velocity of propagation        | Approx. 67 %c |
| Propagation delay                      | ≤ 535 ns/100m |
| Delay skew                             | ≤ 20 ns/100m  |
| Test voltage (DC, 1 min)               | 1000 V        |
| Core/Core                              |               |

### Transmission characteristics acc. to Category 6 (at 20 °C)

| f<br>(MHz) | Attenuation       |                   | NEXT         |              | PS-NEXT      |              | ACR               |                   | PS-ACR            |                   | ELFEXT            |                   | PS-ELFEXT         |                   | Return loss<br>(dB)<br>min. |
|------------|-------------------|-------------------|--------------|--------------|--------------|--------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------|
|            | (dB/100m)<br>max. | (dB/100m)<br>Nom. | (dB)<br>min. | (dB)<br>nom. | (dB)<br>min. | (dB)<br>nom. | (dB/100m)<br>Min. | (dB/100m)<br>nom. | (dB/100m)<br>Min. | (dB/100m)<br>nom. | (dB/100m)<br>min. | (dB/100m)<br>nom. | (dB/100m)<br>min. | (dB/100m)<br>nom. |                             |
| 1          | 2.1               | 1.9               | 74           | 78           | 72           | 75           | 72.0              | 76.1              | 70.0              | 73.1              | 68                | 82                | 65                | 80                | 20                          |
| 4          | 3.8               | 3.8               | 65           | 69           | 63           | 66           | 61.2              | 65.2              | 59.2              | 62.2              | 56                | 70                | 53                | 68                | 23                          |
| 10         | 6.0               | 6.0               | 59           | 63           | 57           | 60           | 53.0              | 57.0              | 51.0              | 54.0              | 48                | 62                | 45                | 60                | 25                          |
| 16         | 7.6               | 7.6               | 56           | 60           | 54           | 57           | 48.4              | 52.3              | 46.4              | 49.3              | 44                | 58                | 41                | 56                | 25                          |
| 20         | 8.5               | 8.5               | 55           | 59           | 53           | 56           | 46.5              | 50.0              | 44.5              | 47.0              | 42                | 56                | 39                | 54                | 25                          |
| 31.2       | 10.7              | 10.7              | 52           | 56           | 50           | 53           | 41.3              | 45.0              | 39.3              | 42.0              | 38                | 52                | 35                | 50                | 23.6                        |
| 62.5       | 15.5              | 15.1              | 47           | 51           | 45           | 48           | 31.5              | 36.0              | 29.5              | 33.0              | 32                | 46                | 29                | 44                | 21.5                        |
| 100        | 19.9              | 19.1              | 44           | 48           | 42           | 45           | 24.1              | 28.9              | 22.1              | 25.9              | 28                | 42                | 25                | 40                | 20.1                        |
| 125        | 22.5              | 21.3              | 43           | 47           | 41           | 44           | 20.5              | 25.2              | 18.5              | 22.2              | 26                | 40                | 23                | 38                | 19.5                        |
| 155.5      | 25.4              | 23.8              | 42           | 45           | 40           | 42           | 16.6              | 21.3              | 14.6              | 18.3              | 24                | 38                | 21                | 36                | 18.8                        |
| 175        | 27.1              | 25.3              | 41           | 44           | 39           | 41           | 13.9              | 19.1              | 11.9              | 16.1              | 23                | 37                | 20                | 35                | 18.4                        |
| 200        | 29.2              | 27.0              | 40           | 44           | 38           | 41           | 10.8              | 16.5              | 8.8               | 13.5              | 22                | 36                | 19                | 34                | 18.0                        |
| 250        | 33.0              | 32.0              | 38           | 42           | 36           | 39           | 5.0               | 10.0              | 2.0               | 7.0               | 20                | 34                | 17                | 32                | 17.3                        |
| 300        |                   | 36.1              |              | 41           |              | 38           |                   | 4.8               |                   | 1.8               |                   | 32                |                   | 30                |                             |
| 400        |                   | 41.7              |              | 39           |              | 36           |                   | -2.7              |                   | -5.7              |                   | 30                |                   | 28                |                             |