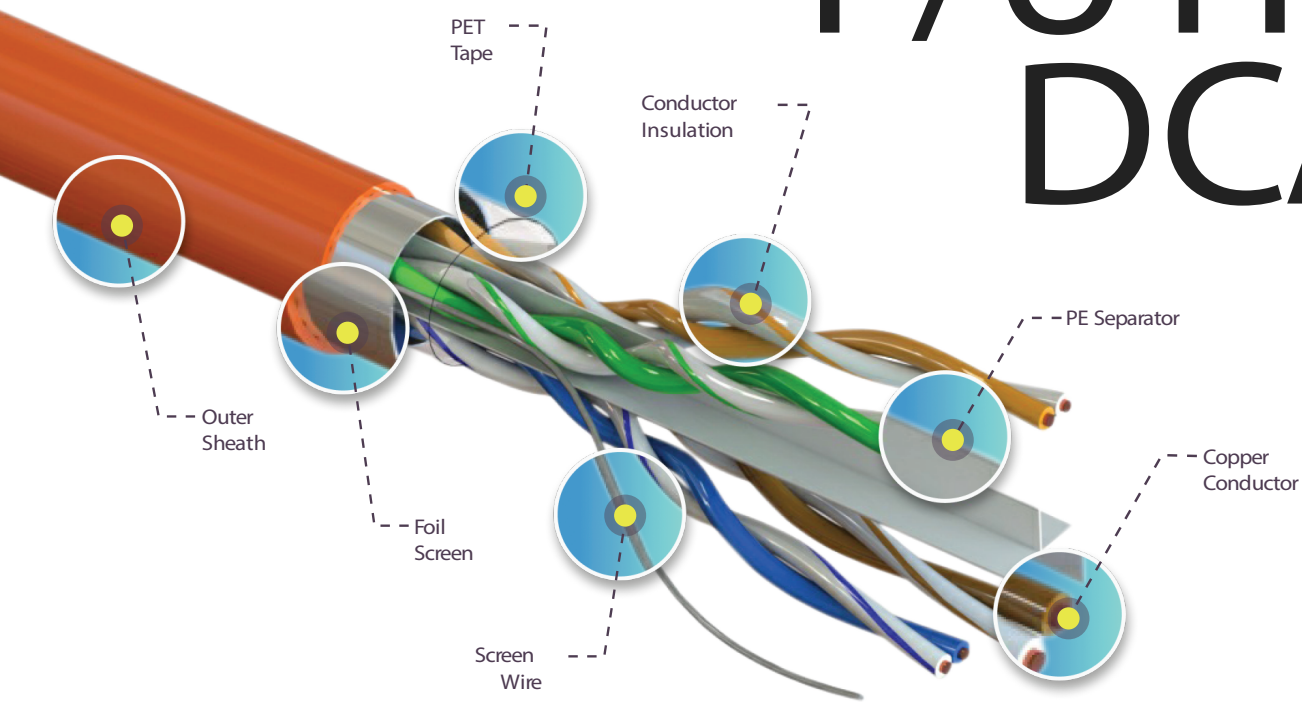




# CAT 6 F/UTP DCA



## Application

- ✓ This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 250 MHz, 1 Gbit/s 1 Gigabit Ethernet.
- ✓ This cable is suitable for installations close to power lines due to its aluminum-pet foil shielding.

## Standards

- ✓ ISO/IEC 11801 2nd ed., IEC 61156-5
- ✓ EN 50288-6-1
- ✓ ANSI EIA/TIA 568-C.2
- ✓ EN 50575:2014+A1:2016

## Specifications:

### MECHANICAL

|                             |                             |
|-----------------------------|-----------------------------|
| Conductors                  | 2x4 AWG23 solid copper wire |
| Sheath material, Color      | LSZH                        |
| Sheath color                | RAL 2003, Orange            |
| CPR Class                   | DCA                         |
| Outer diameter              | aprox 7.0 mm                |
| Shielding                   | Aluminium-pet tape          |
| Operating bending radius    | 4 x D                       |
| Installation bending radius | 8 x D                       |
| Tensile strenght            | ≤ 85N                       |
| Crush resistance            | ≤ 1000 N/10 cm              |
| Impact strenght             | Min 10 impacts              |

## Specifications:

### ELECTRICAL

|                         |                |
|-------------------------|----------------|
| Conductor resistance    | ≤ 85 Ω/km      |
| Resistance imbalance    | ≤ 2%           |
| Insulation resistance   | ≥ 5000 M Ω x m |
| Capacitance nom.        | 56 pF/m        |
| Capacity imbalance      | ≤ 1600 pF/km   |
| Velocity of propagation | 67-69%         |
| Propagation delay       | < 537 ns/100 m |
| Signal delay            | ≤ 45 ns/100 m  |
| Test voltage            | 1000 V         |
| Operating voltage       | ≤ 72 V         |

### ENVIROMENTAL

|                          |                |
|--------------------------|----------------|
| Operating temperature    | -20°C ...+60°C |
| Installation temperature | 0°C ...+50°C   |

## Technical Data:

| FREQUENCY,<br>[MHZ] | FREQUENCY,<br>[MHZ]<br>max. | NEXT<br>[DB]<br>min. | PS-NEXT<br>[DB]<br>min. | ACR<br>[DB/100 M]<br>min. | PS-ACR<br>[DB/100 M]<br>min. | ACR-F<br>[DB/100 M]<br>min. | PS-ACR-F<br>[DB/100 M]<br>min. | RL<br>[DB]<br>min. |
|---------------------|-----------------------------|----------------------|-------------------------|---------------------------|------------------------------|-----------------------------|--------------------------------|--------------------|
| 1                   | 2.1                         | 75.3                 | 72.3                    | 73.2                      | 70.2                         | 68                          | 65                             | 20                 |
| 4                   | 3.8                         | 66.3                 | 63.3                    | 62.4                      | 59.4                         | 56                          | 53                             | 23                 |
| 10                  | 6                           | 60.3                 | 57.3                    | 54.3                      | 51.3                         | 48                          | 45                             | 25                 |
| 16                  | 7.6                         | 57.2                 | 54.2                    | 49.6                      | 46.6                         | 43.9                        | 40.9                           | 25                 |
| 31.25               | 10.7                        | 52.9                 | 49.9                    | 42.1                      | 39.1                         | 38.1                        | 35.1                           | 23.6               |
| 62.50               | 15.5                        | 48.4                 | 45.4                    | 32.9                      | 29.9                         | 32.1                        | 29.1                           | 21.5               |
| 100                 | 19.9                        | 45.3                 | 42.3                    | 25.4                      | 22.4                         | 28                          | 25                             | 20.1               |
| 250                 | 33                          | 39.3                 | 36.3                    | 6.3                       | 3.3                          | 20                          | 17                             | 17.3               |

## Ordering information:

| PART NUMBER       | CABLE STRUCTURE                        | DIAMETER, MM | CABLE WEIGH, KG/KM | SHEATH COLOR | PACKAGING, M |
|-------------------|--|--------------|--------------------|--------------|--------------|
| ECG6FTPLSZH-DCA-3 | Cat.6 F/UTP 4x2x23 AWG LSZH DCA indoor | 7.0          | 56                 | Orange       | 305          |
| ECG6FTPLSZH-DCA-5 | Cat.6 F/UTP 4x2x23 AWG LSZH DCA indoor | 7.0          | 56                 | Orange       | 500          |