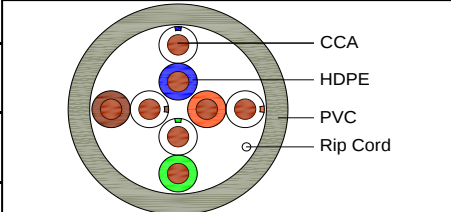


## UTP CAT.5E 24AWG CCA

|               |                                            |                                                                                    |
|---------------|--------------------------------------------|------------------------------------------------------------------------------------|
| Description   | CAT5e CCA UTP Cable 305m Pull Box - 0.50mm |  |
| Standard      | EIA/TIA568A、ISO/IEC11801                   |                                                                                    |
| Application   | ISDN、10Base-T、1000Base-T4、100Base-TX       |                                                                                    |
| Cable Marking | UTP CAT5E LAN CABLE 001m(001m---305m)      |                                                                                    |

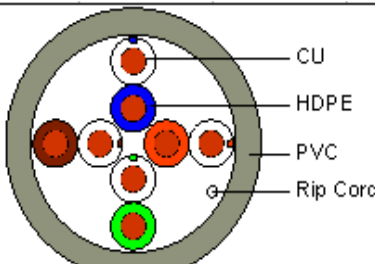
### Construction

|                     |        |                   |                     |                   |               |
|---------------------|--------|-------------------|---------------------|-------------------|---------------|
| Conductor           | CCA    | Insulation colors | Blue,White/Blue     | Rip Cord          | yes           |
| Conductor Dia.      | 0.50mm |                   | Orange,White/Orange | Jacket            | PVC           |
| Insulation          | HDPE   |                   | Green,White/Green   | Jacket Colors     | white or grey |
| Insulation Dia.     | 0.89mm |                   | Brown,White/Brown   | Jacket Out Dia.   | 5.0mm         |
| Twisting Lay Length | ≤23mm  |                   |                     | Average Thickness | 0.53±0.05mm   |

### Electrical Characteristics

| Frequency(MHz)        | ATT (≤dB/100m) | NEXT (≥dB) | ELFEXT (≥dB)                | RL (≥dB) | PS NEXT (≥dB) |
|-----------------------|----------------|------------|-----------------------------|----------|---------------|
| 1                     | 2,3            | 65,3       | 63,8                        | 18,0     | 62,3          |
| 4                     | 4,4            | 56,3       | 51,7                        | 21,0     | 53,3          |
| 8                     | 6,1            | 51,8       | 45,7                        | 22,5     | 48,8          |
| 10                    | 6,8            | 50,3       | 43,8                        | 23,0     | 47,3          |
| 16                    | 8,5            | 47,3       | 39,7                        | 23,0     | 44,3          |
| 20                    | 9,6            | 45,8       | 37,7                        | 23,0     | 42,8          |
| 25                    | 10,7           | 44,3       | 35,8                        | 22,3     | 41,3          |
| 31,25                 | 12,0           | 42,9       | 33,9                        | 20,6     | 39,9          |
| 62,5                  | 17,3           | 38,4       | 27,8                        | 18,5     | 35,4          |
| 100                   | 22,3           | 35,3       | 23,8                        | 17,1     | 32,3          |
| Impedance(1to100MHz)  |                | 100±15 Ohm | Conductor DC Resistance 20℃ |          | ≤152(ohms/km) |
| Capacitance 1kHz      |                | 56pF/km    | Resistance Unbalance        |          | ≤3%           |
| Capacitance unbalance |                | 100pF/100m | Insulation Resistance       |          | 5000MΩ.KM     |

## UTP CAT.5E 24AWG 100% CU

|               |                                           |                                                                                     |
|---------------|-------------------------------------------|-------------------------------------------------------------------------------------|
| Description   | CAT5e CU UTP Cable 305m Pull Box - 0.50mm |  |
| Standard      | EIA/TIA568A、ISO/IEC11801                  |                                                                                     |
| Application   | ISDN、10Base-T、1000Base-T4、100Base-TX      |                                                                                     |
| Cable Marking | UTP CAT5E LAN CABLE 001m(001m---305m)     |                                                                                     |

### Construction

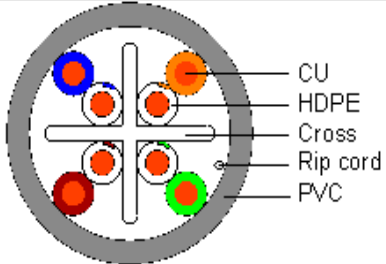
|                     |                   |                   |                     |                   |               |
|---------------------|-------------------|-------------------|---------------------|-------------------|---------------|
| Conductor           | Solid Bare Copper | Insulation colors | Blue,White/Blue     | Rip Cord          | yes           |
| Conductor Dia.      | 0.50mm            |                   | Orange,White/Orange | Jacket            | PVC           |
| Insulation          | HDPE              |                   | Green,White/Green   | Jacket Colors     | white or grey |
| Insulation Dia.     | 0,89              |                   | Brown,White/Brown   | Jacket Out Dia.   | 5.0mm         |
| Twisting Lay Length | ≤23mm             |                   |                     | Average Thickness | 0.53±0.05mm   |

### Electrical Characteristics

| Frequency(MHz)        | ATT (≤dB/100m) | NEXT (≥dB) | ELFEXT (≥dB)                | RL (≥dB) | PS NEXT (≥dB) |
|-----------------------|----------------|------------|-----------------------------|----------|---------------|
| 1                     | 2,0            | 65,3       | 63,8                        | 20,0     | 62,3          |
| 4                     | 4,1            | 56,3       | 51,7                        | 23,0     | 53,3          |
| 8                     | 5,8            | 51,8       | 45,7                        | 24,5     | 48,8          |
| 10                    | 6,5            | 50,3       | 43,8                        | 25,0     | 47,3          |
| 16                    | 8,2            | 47,3       | 39,7                        | 25,0     | 44,3          |
| 20                    | 9,3            | 45,8       | 37,7                        | 25,0     | 42,8          |
| 25                    | 10,4           | 44,3       | 35,8                        | 24,3     | 41,3          |
| 31,25                 | 11,7           | 42,9       | 33,9                        | 23,6     | 39,9          |
| 62,5                  | 17,0           | 38,4       | 27,8                        | 21,5     | 35,4          |
| 100                   | 22,0           | 35,3       | 23,8                        | 20,1     | 32,3          |
| Impedance(1to100MHz)  |                | 100±15 Ohm | Conductor DC Resistance 20℃ |          | ≤94(ohms/km)  |
| Capacitance 1kHz      |                | 56pF/km    | Resistance Unbalance        |          | ≤3%           |
| Capacitance unbalance |                | 100pF/100m | Insulation Resistance       |          | 5000MΩ.KM     |

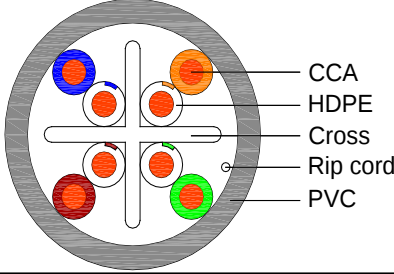


## UTP CAT.6 23AWG 100% CU

|                            |                                          |                   |                                                                                    |                   |               |
|----------------------------|------------------------------------------|-------------------|------------------------------------------------------------------------------------|-------------------|---------------|
| Description                | CAT6 BC UTP Cable 305m Pull Box - 0.57mm |                   |  |                   |               |
| Standard                   | EIA/TIA568A、ISO/IEC11801                 |                   |                                                                                    |                   |               |
| Application                | ISDN、10Base-T、1000Base-T4、100Base-TX     |                   |                                                                                    |                   |               |
| Cable Marking              | UTP CAT6 LAN CABLE 001m(001m---305m)     |                   |                                                                                    |                   |               |
| Construction               |                                          |                   |                                                                                    |                   |               |
| Conductor                  | Solid Bare Copper                        | Insulation colors | Blue,White/Blue                                                                    | Rip Cord          | yes           |
| Conductor Dia.             | 0.57mm                                   |                   | Orange,White/Orange                                                                | Jacket            | PVC           |
| Insulation                 | HDPE                                     |                   | Green,White/Green                                                                  | Jacket Colors     | white or grey |
| Insulation Dia.            | 1.02mm                                   |                   | Brown,White/Brown                                                                  | Jacket Out Dia.   | 6.1mm         |
| Twisting Lay Length        | ≤23mm                                    | Cross             | yes                                                                                | Average Thickness | 0.55±0.05mm   |
| Electrical Characteristics |                                          |                   |                                                                                    |                   |               |
| Frequency(MHz)             | ATT (≤dB/100m)                           | NEXT (≥dB)        | ELFEXT (≥dB)                                                                       | RL (≥dB)          | PS NEXT (≥dB) |
| 1                          | 2,0                                      | 74,3              | 67,8                                                                               | 20,0              | 72,3          |
| 4                          | 3,8                                      | 65,3              | 55,8                                                                               | 23,0              | 63,3          |
| 8                          | 5,3                                      | 60,8              | 49,7                                                                               | 24,5              | 58,8          |
| 10                         | 6,0                                      | 59,3              | 47,8                                                                               | 25,0              | 57,3          |
| 16                         | 7,6                                      | 56,2              | 43,7                                                                               | 25,0              | 54,2          |
| 20                         | 8,5                                      | 54,8              | 41,8                                                                               | 25,0              | 52,8          |
| 25                         | 9,5                                      | 53,3              | 39,8                                                                               | 24,3              | 51,3          |
| 31,25                      | 10,7                                     | 51,9              | 37,9                                                                               | 23,6              | 49,9          |
| 62,5                       | 15,4                                     | 47,4              | 31,9                                                                               | 21,5              | 45,4          |
| 100                        | 19,8                                     | 44,3              | 27,8                                                                               | 20,1              | 42,3          |
| 200                        | 29,0                                     | 39,8              | 21,8                                                                               | 18,0              | 37,8          |
| 250                        | 32,8                                     | 38,3              | 19,8                                                                               | 17,3              | 36,3          |
| Impedance(1to100MHz)       |                                          | 100±15 Ohm        | Conductor DC Resistance 20℃                                                        |                   | ≤72(ohms/km)  |
| Capacitance 1kHz           |                                          | 56pF/km           | Resistance Unbalance                                                               |                   | ≤3%           |

|                       |            |                       |           |
|-----------------------|------------|-----------------------|-----------|
| Capacitance unbalance | 100pF/100m | Insulation Resistance | 5000MΩ.KM |
|-----------------------|------------|-----------------------|-----------|

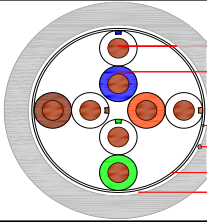
## UTP CAT.6 23AWG CCA

|                            |                                          |                   |                                                                                    |                   |               |
|----------------------------|------------------------------------------|-------------------|------------------------------------------------------------------------------------|-------------------|---------------|
| Description                | CAT6 UTP Cable CCA 305m Box - 0.57mm     |                   |  |                   |               |
| Standard                   | EIA/TIA568A、ISO/IEC11801                 |                   |                                                                                    |                   |               |
| Application                | ISDN、10Base-T、1000Base-T4、100Base-TX     |                   |                                                                                    |                   |               |
| Cable Marking              | UTP CAT6 LAN CABLE CCA 001m(001m---305m) |                   |                                                                                    |                   |               |
| Construction               |                                          |                   |                                                                                    |                   |               |
| Conductor                  | CCA                                      | Insulation colors | Blue,White/Blue                                                                    | Rip Cord          | yes           |
| Conductor Dia.             | 0.57mm                                   |                   | Orange,White/Orange                                                                | Jacket            | PVC           |
| Insulation                 | HDPE                                     |                   | Green,White/Green                                                                  | Jacket Colors     | white or grey |
| Insulation Dia.            | 1.02mm                                   |                   | Brown,White/Brown                                                                  | Jacket Out Dia.   | 6.1mm         |
| Twisting Lay Length        | ≤23mm                                    | Cross             | yes                                                                                | Average Thickness | 0.55±0.05mm   |
| Electrical Characteristics |                                          |                   |                                                                                    |                   |               |
| Frequency(MHz)             | ATT (≤dB/100m)                           | NEXT (≥dB)        | ELFEXT (≥dB)                                                                       | RL (≥dB)          | PS NEXT (≥dB) |
| 1                          | 2,3                                      | 74,3              | 67,8                                                                               | 20,0              | 72,3          |
| 4                          | 4,1                                      | 65,3              | 55,8                                                                               | 23,0              | 63,3          |
| 8                          | 5,6                                      | 60,8              | 49,7                                                                               | 24,5              | 58,8          |
| 10                         | 6,3                                      | 59,3              | 47,8                                                                               | 25,0              | 57,3          |
| 16                         | 7,9                                      | 56,2              | 43,7                                                                               | 25,0              | 54,2          |
| 20                         | 8,8                                      | 54,8              | 41,8                                                                               | 25,0              | 52,8          |
| 25                         | 9,8                                      | 53,3              | 39,8                                                                               | 24,3              | 51,3          |
| 31,25                      | 11,0                                     | 51,9              | 37,9                                                                               | 23,6              | 49,9          |
| 62,5                       | 15,7                                     | 47,4              | 31,9                                                                               | 21,5              | 45,4          |
| 100                        | 20,1                                     | 44,3              | 27,8                                                                               | 20,1              | 42,3          |
| 200                        | 29,3                                     | 39,8              | 21,8                                                                               | 18,0              | 37,8          |
| 250                        | 33,1                                     | 38,3              | 19,8                                                                               | 17,3              | 36,3          |
| Impedance(1to100MHz)       |                                          | 100±15 Ohm        | Conductor DC Resistance 20℃                                                        |                   | ≤118(ohms/km) |
| Capacitance 1kHz           |                                          | 56pF/km           | Resistance Unbalance                                                               |                   | ≤3%           |

|                       |            |                       |           |
|-----------------------|------------|-----------------------|-----------|
| Capacitance unbalance | 100pF/100m | Insulation Resistance | 5000MΩ.KM |
|-----------------------|------------|-----------------------|-----------|



## FTP CAT.5E 24AWG CCA

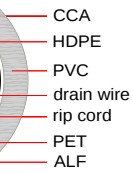
|               |                                            |                                                                                     |
|---------------|--------------------------------------------|-------------------------------------------------------------------------------------|
| Description   | CAT5e CCA FTP Cable 305m Pull Box - 0.50mm |  |
| Standard      | EIA/TIA568A、ISO/IEC11801                   |                                                                                     |
| Application   | ISDN、10Base-T、1000Base-T4、100Base-TX       |                                                                                     |
| Cable Marking | FTP CAT5E LAN CABLE 001m(001m---305m)      |                                                                                     |

### Construction

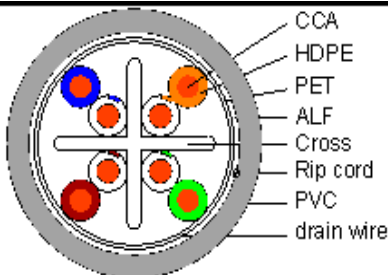
|                     |        |                   |                     |                   |
|---------------------|--------|-------------------|---------------------|-------------------|
| Conductor           | CCA    | Insulation colors | Blue,White/Blue     | ALF               |
| Conductor Dia.      | 0.50mm |                   | Orange,White/Orange | Rip Cord          |
| Insulation          | HDPE   |                   | Green,White/Green   | Jacket            |
| Insulation Dia.     | 0.95mm |                   | Brown,White/Brown   | Jacket Colors     |
| Twisting Lay Length | ≤23mm  | PET               | yes                 | Jacket Out Dia.   |
|                     |        | drain wire        | 0.40CCA             | Average Thickness |

### Electrical Characteristics

| Frequency(MHz)        | ATT (≤dB/100m) | NEXT (≥dB) | ELFEXT (≥dB)                | RL (≥dB) |
|-----------------------|----------------|------------|-----------------------------|----------|
| 1                     | 2,3            | 65,3       | 63,8                        | 17,0     |
| 4                     | 4,4            | 56,3       | 51,7                        | 20,0     |
| 8                     | 6,1            | 51,8       | 45,7                        | 21,5     |
| 10                    | 6,8            | 50,3       | 43,8                        | 22,0     |
| 16                    | 8,5            | 47,3       | 39,7                        | 22,0     |
| 20                    | 9,6            | 45,8       | 37,7                        | 22,0     |
| 25                    | 10,7           | 44,3       | 35,8                        | 21,3     |
| 31,25                 | 12,0           | 42,9       | 33,9                        | 19,6     |
| 62,5                  | 17,3           | 38,4       | 27,8                        | 17,5     |
| 100                   | 22,3           | 35,3       | 23,8                        | 16,1     |
| Impedance(1to100MHz)  |                | 100±15 Ohm | Conductor DC Resistance 20℃ |          |
| Capacitance 1kHz      |                | 56pF/km    | Resistance Unbalance        |          |
| Capacitance unbalance |                | 100pF/100m | Insulation Resistance       |          |

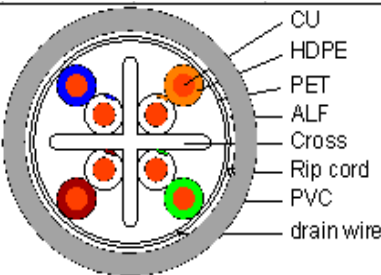
|                                                                                   |  |
|-----------------------------------------------------------------------------------|--|
|  |  |
|                                                                                   |  |
| yes                                                                               |  |
| yes                                                                               |  |
| PVC                                                                               |  |
| white or grey                                                                     |  |
| 5.5mm                                                                             |  |
| 0.53±0.05mm                                                                       |  |
|                                                                                   |  |
| PS NEXT (≥dB)                                                                     |  |
| 62,3                                                                              |  |
| 53,3                                                                              |  |
| 48,8                                                                              |  |
| 47,3                                                                              |  |
| 44,3                                                                              |  |
| 42,8                                                                              |  |
| 41,3                                                                              |  |
| 39,9                                                                              |  |
| 35,4                                                                              |  |
| 32,3                                                                              |  |
| ≤152(ohms/km)                                                                     |  |
| ≤3%                                                                               |  |
| 5000MΩ.KM                                                                         |  |

## FTP CAT.6 23AWG CCA

|                                                                                    |                                           |                   |                             |                   |               |
|------------------------------------------------------------------------------------|-------------------------------------------|-------------------|-----------------------------|-------------------|---------------|
| Description                                                                        | CAT6 CCA FTP Cable 305m Pull Box - 0.57mm |                   |                             |                   |               |
| Standard                                                                           | EIA/TIA568A、ISO/IEC11801                  |                   |                             |                   |               |
| Application                                                                        | ISDN、10Base-T、1000Base-T4、100Base-TX      |                   |                             |                   |               |
| Cable Marking                                                                      | FTP CAT6 LAN CABLE 001m(001m---305m)      |                   |                             |                   |               |
|  |                                           |                   |                             |                   |               |
| Construction                                                                       |                                           |                   |                             |                   |               |
| Conductor                                                                          | CCA                                       | Insulation colors | Blue,White/Blue             | ALF               | yes           |
| Conductor Dia.                                                                     | 0.57mm                                    |                   | Orange,White/Orange         | Rip Cord          | yes           |
| Insulation                                                                         | HDPE                                      |                   | Green,White/Green           | Jacket            | PVC           |
| Insulation Dia.                                                                    | 1.10mm                                    |                   | Brown,White/Brown           | Jacket Colors     | white or grey |
| Twisting Lay Length                                                                | ≤23mm                                     | PET               | yes                         | Jacket Out Dia.   | 6.5mm         |
|                                                                                    |                                           | drain wire        | 0.40CCA                     | Average Thickness | 0.53±0.05mm   |
| Electrical Characteristics                                                         |                                           |                   |                             |                   |               |
| Frequency(MHz)                                                                     | ATT (≤dB/100m)                            | NEXT (≥dB)        | ELFEXT (≥dB)                | RL (≥dB)          | PS NEXT (≥dB) |
| 1                                                                                  | 2,3                                       | 74,3              | 67,8                        | 17,0              | 72,3          |
| 4                                                                                  | 4,1                                       | 65,3              | 55,8                        | 20,0              | 63,3          |
| 8                                                                                  | 5,6                                       | 60,8              | 49,7                        | 21,5              | 58,8          |
| 10                                                                                 | 6,3                                       | 59,3              | 47,8                        | 22,0              | 57,3          |
| 16                                                                                 | 7,9                                       | 56,2              | 43,7                        | 22,0              | 54,2          |
| 20                                                                                 | 8,8                                       | 54,8              | 41,8                        | 22,0              | 52,8          |
| 25                                                                                 | 9,8                                       | 53,3              | 39,8                        | 21,3              | 51,3          |
| 31,25                                                                              | 11,0                                      | 51,9              | 37,9                        | 19,6              | 49,9          |
| 62,5                                                                               | 15,7                                      | 47,4              | 31,9                        | 17,5              | 45,4          |
| 100                                                                                | 20,1                                      | 44,3              | 27,8                        | 16,1              | 42,3          |
| 200                                                                                | 29,3                                      | 39,8              | 21,8                        | 14,0              | 37,8          |
| 250                                                                                | 33,1                                      | 38,3              | 19,8                        | 13,3              | 36,3          |
| Impedance(1to100MHz)                                                               |                                           | 100±15 Ohm        | Conductor DC Resistance 20℃ |                   | ≤118(ohms/km) |
| Capacitance 1kHz                                                                   |                                           | 56pF/km           | Resistance Unbalance        |                   | ≤3%           |

|                       |            |                       |           |
|-----------------------|------------|-----------------------|-----------|
| Capacitance unbalance | 100pF/100m | Insulation Resistance | 5000MΩ.KM |
|-----------------------|------------|-----------------------|-----------|

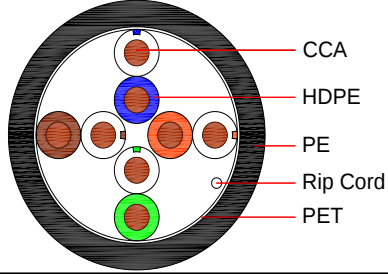
## FTP CAT.6 23AWG 100% CU

|                            |                                          |                   |                                                                                     |                   |               |
|----------------------------|------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|---------------|
| Description                | CAT6 CU FTP Cable 305m Pull Box - 0.57mm |                   |  |                   |               |
| Standard                   | EIA/TIA568A、ISO/IEC11801                 |                   |                                                                                     |                   |               |
| Application                | ISDN、10Base-T、1000Base-T4、100Base-TX     |                   |                                                                                     |                   |               |
| Cable Marking              | FTP CAT6 LAN CABLE 001m(001m---305m)     |                   |                                                                                     |                   |               |
| Construction               |                                          |                   |                                                                                     |                   |               |
| Conductor                  | CU                                       | Insulation colors | Blue,White/Blue                                                                     | ALF               | yes           |
| Conductor Dia.             | 0.57mm                                   |                   | Orange,White/Orange                                                                 | Rip Cord          | yes           |
| Insulation                 | HDPE                                     |                   | Green,White/Green                                                                   | Jacket            | PVC           |
| Insulation Dia.            | 1.10mm                                   |                   | Brown,White/Brown                                                                   | Jacket Colors     | white or grey |
| Twisting Lay Length        | ≤23mm                                    | PET               | yes                                                                                 | Jacket Out Dia.   | 6.5mm         |
|                            |                                          | drain wire        | 0.40CCA                                                                             | Average Thickness | 0.53±0.05mm   |
| Electrical Characteristics |                                          |                   |                                                                                     |                   |               |
| Frequency(MHz)             | ATT (≤dB/100m)                           | NEXT (≥dB)        | ELFEXT (≥dB)                                                                        | RL (≥dB)          | PS NEXT (≥dB) |
| 1                          | 2,0                                      | 74,3              | 67,8                                                                                | 20,0              | 72,3          |
| 4                          | 3,8                                      | 65,3              | 55,8                                                                                | 23,0              | 63,3          |
| 8                          | 5,3                                      | 60,8              | 49,7                                                                                | 24,5              | 58,8          |
| 10                         | 6,0                                      | 59,3              | 47,8                                                                                | 25,0              | 57,3          |
| 16                         | 7,6                                      | 56,2              | 43,7                                                                                | 25,0              | 54,2          |
| 20                         | 8,5                                      | 54,8              | 41,8                                                                                | 25,0              | 52,8          |
| 25                         | 9,5                                      | 53,3              | 39,8                                                                                | 24,3              | 51,3          |
| 31,25                      | 10,7                                     | 51,9              | 37,9                                                                                | 23,6              | 49,9          |
| 62,5                       | 15,4                                     | 47,4              | 31,9                                                                                | 21,5              | 45,4          |
| 100                        | 19,8                                     | 44,3              | 27,8                                                                                | 20,1              | 42,3          |
| 200                        | 29,0                                     | 39,8              | 21,8                                                                                | 18,0              | 37,8          |
| 250                        | 32,8                                     | 38,3              | 19,8                                                                                | 17,3              | 36,3          |
| Impedance(1to100MHz)       |                                          | 100±15 Ohm        | Conductor DC Resistance 20℃                                                         |                   | ≤72(ohms/km)  |

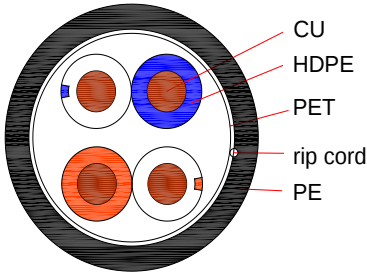
|                       |            |                       |           |
|-----------------------|------------|-----------------------|-----------|
| Capacitance 1kHz      | 56pF/km    | Resistance Unbalance  | ≤3%       |
| Capacitance unbalance | 100pF/100m | Insulation Resistance | 5000MΩ.KM |



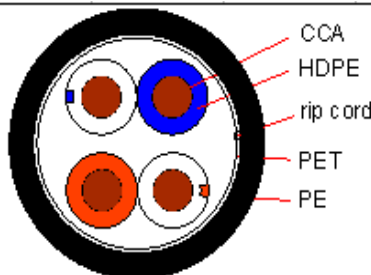
## UTP CAT.5E 24AWG CCA Outdoor

|                            |                                            |                   |                                                                                    |                   |               |
|----------------------------|--------------------------------------------|-------------------|------------------------------------------------------------------------------------|-------------------|---------------|
| Description                | CAT5e CCA UTP Cable 305m Pull Box - 0.50mm |                   |  |                   |               |
| Standard                   | EIA/TIA568A、ISO/IEC11801                   |                   |                                                                                    |                   |               |
| Application                | ISDN、10Base-T、1000Base-T4、100Base-TX       |                   |                                                                                    |                   |               |
| Cable Marking              | UTP CAT5E LAN CABLE 001m(001m---305m)      |                   |                                                                                    |                   |               |
| Construction               |                                            |                   |                                                                                    |                   |               |
| Conductor                  | CCA                                        | Insulation colors | Blue,White/Blue                                                                    | Rip Cord          | yes           |
| Conductor Dia.             | 0.50mm                                     |                   | Orange,White/Orange                                                                | Jacket            | PE            |
| Insulation                 | HDPE                                       |                   | Green,White/Green                                                                  | Jacket Colors     | black         |
| Insulation Dia.            | 0.89mm                                     |                   | Brown,White/Brown                                                                  | Jacket Out Dia.   | 5.1mm         |
| Twisting Lay Length        | ≤23mm                                      | PET               | yes                                                                                | Average Thickness | 0.55±0.05mm   |
| Electrical Characteristics |                                            |                   |                                                                                    |                   |               |
| Frequency(MHz)             | ATT (≤dB/100m)                             | NEXT (≥dB)        | ELFEXT (≥dB)                                                                       | RL (≥dB)          | PS NEXT (≥dB) |
| 1                          | 2,3                                        | 65,3              | 63,8                                                                               | 18,0              | 62,3          |
| 4                          | 4,4                                        | 56,3              | 51,7                                                                               | 21,0              | 53,3          |
| 8                          | 6,1                                        | 51,8              | 45,7                                                                               | 22,5              | 48,8          |
| 10                         | 6,8                                        | 50,3              | 43,8                                                                               | 23,0              | 47,3          |
| 16                         | 8,5                                        | 47,3              | 39,7                                                                               | 23,0              | 44,3          |
| 20                         | 9,6                                        | 45,8              | 37,7                                                                               | 23,0              | 42,8          |
| 25                         | 10,7                                       | 44,3              | 35,8                                                                               | 22,3              | 41,3          |
| 31,25                      | 12,0                                       | 42,9              | 33,9                                                                               | 20,6              | 39,9          |
| 62,5                       | 17,3                                       | 38,4              | 27,8                                                                               | 18,5              | 35,4          |
| 100                        | 22,3                                       | 35,3              | 23,8                                                                               | 17,1              | 32,3          |
| Impedance(1to100MHz)       |                                            | 100±15 Ohm        | Conductor DC Resistance 20℃                                                        |                   | ≤152(ohms/km) |
| Capacitance 1kHz           |                                            | 56pF/km           | Resistance Unbalance                                                               |                   | ≤3%           |
| Capacitance unbalance      |                                            | 100pF/100m        | Insulation Resistance                                                              |                   | 5000MΩ.KM     |

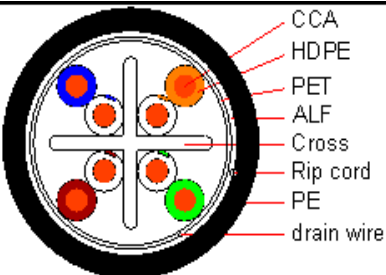
## OUTDOOR UTP CAT.5E 24AWG 100%CU 2PAIR

|                            |                                             |                   |                                                                                    |                   |               |
|----------------------------|---------------------------------------------|-------------------|------------------------------------------------------------------------------------|-------------------|---------------|
| Description                | CAT5 CU 2P UTP Cable 305m Pull Box - 0.50mm |                   |  |                   |               |
| Standard                   | EIA/TIA568A、ISO/IEC11801                    |                   |                                                                                    |                   |               |
| Application                | ISDN、10Base-T、1000Base-T4、100Base-TX        |                   |                                                                                    |                   |               |
| Cable Marking              | UTP CAT5E LAN CABLE 001m(001m---305m)       |                   |                                                                                    |                   |               |
| Construction               |                                             |                   |                                                                                    |                   |               |
| Conductor                  | CU                                          | Insulation colors | Blue,White/Blue                                                                    | Rip Cord          | yes           |
| Conductor Dia.             | 0.50mm                                      |                   | Orange,White/Orange                                                                | Jacket            | PE            |
| Insulation                 | HDPE                                        |                   |                                                                                    | Jacket Colors     | black         |
| Insulation Dia.            | 0.89mm                                      |                   |                                                                                    | Jacket Out Dia.   | 4.2mm         |
| Twisting Lay Length        | ≤23mm                                       | PET               | yes                                                                                | Average Thickness | 0.53±0.05mm   |
| Electrical Characteristics |                                             |                   |                                                                                    |                   |               |
| Frequency(MHz)             | ATT (≤dB/100m)                              | NEXT (≥dB)        | ELFEXT (≥dB)                                                                       | RL (≥dB)          | PS NEXT (≥dB) |
| 1                          | 2,0                                         | 62,3              | 60,8                                                                               | 17,0              | 62,3          |
| 4                          | 4,1                                         | 53,3              | 48,7                                                                               | 18,8              | 53,3          |
| 8                          | 5,8                                         | 48,8              | 42,7                                                                               | 19,7              | 48,8          |
| 10                         | 6,5                                         | 47,3              | 40,8                                                                               | 20,0              | 47,3          |
| 16                         | 8,2                                         | 44,3              | 36,7                                                                               | 20,0              | 44,3          |
| 20                         | 9,3                                         | 42,8              | 34,7                                                                               | 20,0              | 42,8          |
| 25                         | 10,4                                        | 41,3              | 32,8                                                                               | 19,3              | 41,3          |
| 31,25                      | 11,7                                        | 39,9              | 30,9                                                                               | 18,6              | 39,9          |
| 62,5                       | 17,0                                        | 35,4              | 24,8                                                                               | 16,5              | 35,4          |
| 100                        | 22,0                                        | 32,3              | 20,8                                                                               | 15,1              | 32,3          |
| Impedance(1to100MHz)       |                                             | 100±15 Ohm        | Conductor DC Resistance 20℃                                                        |                   | ≤93(ohms/km)  |
| Capacitance 1kHz           |                                             | 56pF/km           | Resistance Unbalance                                                               |                   | ≤3%           |
| Capacitance unbalance      |                                             | 100pF/100m        | Insulation Resistance                                                              |                   | 5000MΩ.KM     |

## UTP CAT.5 24AWG CCA 2PAIR

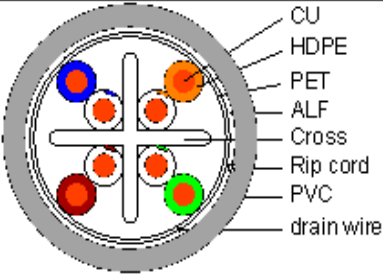
|                                                                                     |                                              |                   |                             |                   |               |
|-------------------------------------------------------------------------------------|----------------------------------------------|-------------------|-----------------------------|-------------------|---------------|
| Description                                                                         | CAT5 CCA 2P UTP Cable 305m Pull Box - 0.50mm |                   |                             |                   |               |
| Standard                                                                            | EIA/TIA568A、ISO/IEC11801                     |                   |                             |                   |               |
| Application                                                                         | ISDN、10Base-T、1000Base-T4、100Base-TX         |                   |                             |                   |               |
| Cable Marking                                                                       | UTP CAT5E LAN CABLE 001m(001m---305m)        |                   |                             |                   |               |
|  |                                              |                   |                             |                   |               |
| Construction                                                                        |                                              |                   |                             |                   |               |
| Conductor                                                                           | CCA                                          | Insulation colors | Blue,White/Blue             | Rip Cord          | yes           |
| Conductor Dia.                                                                      | 0.50mm                                       |                   | Orange,White/Orange         | Jacket            | PE            |
| Insulation                                                                          | HDPE                                         |                   |                             | Jacket Colors     | black         |
| Insulation Dia.                                                                     | 0.89mm                                       |                   |                             | Jacket Out Dia.   | 4.2mm         |
| Twisting Lay Length                                                                 | ≤23mm                                        | PET               | yes                         | Average Thickness | 0.53±0.05mm   |
| Electrical Characteristics                                                          |                                              |                   |                             |                   |               |
| Frequency(MHz)                                                                      | ATT (≤dB/100m)                               | NEXT (≥dB)        | ELFEXT (≥dB)                | RL (≥dB)          | PS NEXT (≥dB) |
| 1                                                                                   | 2,3                                          | 62,3              | 60,8                        | 17,0              | 62,3          |
| 4                                                                                   | 4,4                                          | 53,3              | 48,7                        | 18,8              | 53,3          |
| 8                                                                                   | 6,1                                          | 48,8              | 42,7                        | 19,7              | 48,8          |
| 10                                                                                  | 6,8                                          | 47,3              | 40,8                        | 20,0              | 47,3          |
| 16                                                                                  | 8,5                                          | 44,3              | 36,7                        | 20,0              | 44,3          |
| 20                                                                                  | 9,6                                          | 42,8              | 34,7                        | 20,0              | 42,8          |
| 25                                                                                  | 10,7                                         | 41,3              | 32,8                        | 19,3              | 41,3          |
| 31,25                                                                               | 12,0                                         | 39,9              | 30,9                        | 18,6              | 39,9          |
| 62,5                                                                                | 17,3                                         | 35,4              | 24,8                        | 16,5              | 35,4          |
| 100                                                                                 | 22,3                                         | 32,3              | 20,8                        | 15,1              | 32,3          |
| Impedance(1to100MHz)                                                                |                                              | 100±15 Ohm        | Conductor DC Resistance 20℃ |                   | ≤153(ohms/km) |
| Capacitance 1kHz                                                                    |                                              | 56pF/km           | Resistance Unbalance        |                   | ≤3%           |
| Capacitance unbalance                                                               |                                              | 100pF/100m        | Insulation Resistance       |                   | 5000MΩ.KM     |

## FTP CAT.6 OUTDOOR 23AWG CCA

|                                                                                                |                                           |                   |                             |                   |               |
|------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------|-----------------------------|-------------------|---------------|
| Description                                                                                    | CAT6 CCA FTP Cable 305m Pull Box - 0.57mm |                   |                             |                   |               |
| Standard                                                                                       | EIA/TIA568A、ISO/IEC11801                  |                   |                             |                   |               |
| Application                                                                                    | ISDN、10Base-T、1000Base-T4、100Base-TX      |                   |                             |                   |               |
| Cable Marking                                                                                  | FTP CAT6 LAN CABLE 001m(001m---305m)      |                   |                             |                   |               |
| <div></div> |                                           |                   |                             |                   |               |
| Construction                                                                                   |                                           |                   |                             |                   |               |
| Conductor                                                                                      | CCA                                       | Insulation colors | Blue,White/Blue             | ALF               | yes           |
| Conductor Dia.                                                                                 | 0.57mm                                    |                   | Orange,White/Orange         | Rip Cord          | yes           |
| Insulation                                                                                     | HDPE                                      |                   | Green,White/Green           | Jacket            | PE            |
| Insulation Dia.                                                                                | 1.10mm                                    |                   | Brown,White/Brown           | Jacket Colors     | black         |
| Twisting Lay Length                                                                            | ≤23mm                                     | PET               | yes                         | Jacket Out Dia.   | 6.5mm         |
|                                                                                                |                                           | drain wire        | 0.40CCA                     | Average Thickness | 0.55±0.05mm   |
| Electrical Characteristics                                                                     |                                           |                   |                             |                   |               |
| Frequency(MHz)                                                                                 | ATT (≤dB/100m)                            | NEXT (≥dB)        | ELFEXT (≥dB)                | RL (≥dB)          | PS NEXT (≥dB) |
| 1                                                                                              | 2,3                                       | 74,3              | 67,8                        | 17,0              | 72,3          |
| 4                                                                                              | 4,1                                       | 65,3              | 55,8                        | 20,0              | 63,3          |
| 8                                                                                              | 5,6                                       | 60,8              | 49,7                        | 21,5              | 58,8          |
| 10                                                                                             | 6,3                                       | 59,3              | 47,8                        | 22,0              | 57,3          |
| 16                                                                                             | 7,9                                       | 56,2              | 43,7                        | 22,0              | 54,2          |
| 20                                                                                             | 8,8                                       | 54,8              | 41,8                        | 22,0              | 52,8          |
| 25                                                                                             | 9,8                                       | 53,3              | 39,8                        | 21,3              | 51,3          |
| 31,25                                                                                          | 11,0                                      | 51,9              | 37,9                        | 19,6              | 49,9          |
| 62,5                                                                                           | 15,7                                      | 47,4              | 31,9                        | 17,5              | 45,4          |
| 100                                                                                            | 20,1                                      | 44,3              | 27,8                        | 16,1              | 42,3          |
| 200                                                                                            | 29,3                                      | 39,8              | 21,8                        | 14,0              | 37,8          |
| 250                                                                                            | 33,1                                      | 38,3              | 19,8                        | 13,3              | 36,3          |
| Impedance(1to100MHz)                                                                           |                                           | 100±15 Ohm        | Conductor DC Resistance 20℃ |                   | ≤118(ohms/km) |

|                       |            |                       |           |
|-----------------------|------------|-----------------------|-----------|
| Capacitance 1kHz      | 56pF/km    | Resistance Unbalance  | ≤3%       |
| Capacitance unbalance | 100pF/100m | Insulation Resistance | 5000MΩ.KM |

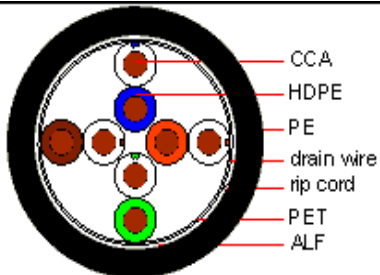
## FTP CAT.6 OUTDOOR 23AWG 100% CU

|                                                                                     |                                          |                   |                             |                   |               |
|-------------------------------------------------------------------------------------|------------------------------------------|-------------------|-----------------------------|-------------------|---------------|
| Description                                                                         | CAT6 CU FTP Cable 305m Pull Box - 0.57mm |                   |                             |                   |               |
| Standard                                                                            | EIA/TIA568A、ISO/IEC11801                 |                   |                             |                   |               |
| Application                                                                         | ISDN、10Base-T、1000Base-T4、100Base-TX     |                   |                             |                   |               |
| Cable Marking                                                                       | FTP CAT6 LAN CABLE 001m(001m---305m)     |                   |                             |                   |               |
|  |                                          |                   |                             |                   |               |
| Construction                                                                        |                                          |                   |                             |                   |               |
| Conductor                                                                           | CU                                       | Insulation colors | Blue,White/Blue             | ALF               | yes           |
| Conductor Dia.                                                                      | 0.57mm                                   |                   | Orange,White/Orange         | Rip Cord          | yes           |
| Insulation                                                                          | HDPE                                     |                   | Green,White/Green           | Jacket            | PE            |
| Insulation Dia.                                                                     | 1.10mm                                   |                   | Brown,White/Brown           | Jacket Colors     | black         |
| Twisting Lay Length                                                                 | ≤23mm                                    | PET               | yes                         | Jacket Out Dia.   | 6.5mm         |
|                                                                                     |                                          | drain wire        | 0.40CCA                     | Average Thickness | 0.55±0.05mm   |
| Electrical Characteristics                                                          |                                          |                   |                             |                   |               |
| Frequency(MHz)                                                                      | ATT (≤dB/100m)                           | NEXT (≥dB)        | ELFEXT (≥dB)                | RL (≥dB)          | PS NEXT (≥dB) |
| 1                                                                                   | 2,0                                      | 74,3              | 67,8                        | 20,0              | 72,3          |
| 4                                                                                   | 3,8                                      | 65,3              | 55,8                        | 23,0              | 63,3          |
| 8                                                                                   | 5,3                                      | 60,8              | 49,7                        | 24,5              | 58,8          |
| 10                                                                                  | 6,0                                      | 59,3              | 47,8                        | 25,0              | 57,3          |
| 16                                                                                  | 7,6                                      | 56,2              | 43,7                        | 25,0              | 54,2          |
| 20                                                                                  | 8,5                                      | 54,8              | 41,8                        | 25,0              | 52,8          |
| 25                                                                                  | 9,5                                      | 53,3              | 39,8                        | 24,3              | 51,3          |
| 31,25                                                                               | 10,7                                     | 51,9              | 37,9                        | 23,6              | 49,9          |
| 62,5                                                                                | 15,4                                     | 47,4              | 31,9                        | 21,5              | 45,4          |
| 100                                                                                 | 19,8                                     | 44,3              | 27,8                        | 20,1              | 42,3          |
| 200                                                                                 | 29,0                                     | 39,8              | 21,8                        | 18,0              | 37,8          |
| 250                                                                                 | 32,8                                     | 38,3              | 19,8                        | 17,3              | 36,3          |
| Impedance(1to100MHz)                                                                |                                          | 100±15 Ohm        | Conductor DC Resistance 20℃ |                   | ≤72(ohms/km)  |

|                       |            |                       |           |
|-----------------------|------------|-----------------------|-----------|
| Capacitance 1kHz      | 56pF/km    | Resistance Unbalance  | ≤3%       |
| Capacitance unbalance | 100pF/100m | Insulation Resistance | 5000MΩ.KM |



## FTP CAT.5E OUTDOOR 24AWG CCA

|                                                                                                |                                            |                   |                             |                   |               |
|------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|-----------------------------|-------------------|---------------|
| Description                                                                                    | CAT5e CCA FTP Cable 305m Pull Box - 0.50mm |                   |                             |                   |               |
| Standard                                                                                       | EIA/TIA568A、ISO/IEC11801                   |                   |                             |                   |               |
| Application                                                                                    | ISDN、10Base-T、1000Base-T4、100Base-TX       |                   |                             |                   |               |
| Cable Marking                                                                                  | FTP CAT5E LAN CABLE 001m(001m---305m)      |                   |                             |                   |               |
| <div></div> |                                            |                   |                             |                   |               |
| Construction                                                                                   |                                            |                   |                             |                   |               |
| Conductor                                                                                      | CCA                                        | Insulation colors | Blue,White/Blue             | ALF               | yes           |
| Conductor Dia.                                                                                 | 0.50mm                                     |                   | Orange,White/Orange         | Rip Cord          | yes           |
| Insulation                                                                                     | HDPE                                       |                   | Green,White/Green           | Jacket            | PE            |
| Insulation Dia.                                                                                | 0.95mm                                     |                   | Brown,White/Brown           | Jacket Colors     | black         |
| Twisting Lay Length                                                                            | ≤23mm                                      | PET               | yes                         | Jacket Out Dia.   | 5.5mm         |
|                                                                                                |                                            | drain wire        | 0.40CCA                     | Average Thickness | 0.55±0.05mm   |
| Electrical Characteristics                                                                     |                                            |                   |                             |                   |               |
| Frequency(MHz)                                                                                 | ATT (≤dB/100m)                             | NEXT (≥dB)        | ELFEXT (≥dB)                | RL (≥dB)          | PS NEXT (≥dB) |
| 1                                                                                              | 2,3                                        | 65,3              | 63,8                        | 17,0              | 62,3          |
| 4                                                                                              | 4,4                                        | 56,3              | 51,7                        | 20,0              | 53,3          |
| 8                                                                                              | 6,1                                        | 51,8              | 45,7                        | 21,5              | 48,8          |
| 10                                                                                             | 6,8                                        | 50,3              | 43,8                        | 22,0              | 47,3          |
| 16                                                                                             | 8,5                                        | 47,3              | 39,7                        | 22,0              | 44,3          |
| 20                                                                                             | 9,6                                        | 45,8              | 37,7                        | 22,0              | 42,8          |
| 25                                                                                             | 10,7                                       | 44,3              | 35,8                        | 21,3              | 41,3          |
| 31,25                                                                                          | 12,0                                       | 42,9              | 33,9                        | 19,6              | 39,9          |
| 62,5                                                                                           | 17,3                                       | 38,4              | 27,8                        | 17,5              | 35,4          |
| 100                                                                                            | 22,3                                       | 35,3              | 23,8                        | 16,1              | 32,3          |
| Impedance(1to100MHz)                                                                           |                                            | 100±15 Ohm        | Conductor DC Resistance 20℃ |                   | ≤152(ohms/km) |
| Capacitance 1kHz                                                                               |                                            | 56pF/km           | Resistance Unbalance        |                   | ≤3%           |
| Capacitance unbalance                                                                          |                                            | 100pF/100m        | Insulation Resistance       |                   | 5000MΩ.KM     |