

5284US Composite - CCTV and PTZ Applications

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| | | <p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> |
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Description:

24 AWG solid BC conductors, polyolefin insulation, plus 2 power conductors, 16 AWG stranded (19x29) tinned copper conductors, polypropylene insulation, unshielded, overall F-R PVC jacket.

SUITABLE APPLICATIONS:

| | |
|-----------------------|---|
| Suitable Applications | UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television |
|-----------------------|---|

PHYSICAL CHARACTERISTICS:

TWISTED PAIR CABLE(S):

CONDUCTOR :

| | |
|---------------------------------|------------------|
| Number of Pairs | 2 |
| Twisted Pair AWG | 24 |
| Twisted Pair Stranding | Solid |
| Twisted Pair Conductor Diameter | .0206 in. |
| Twisted Pair Conductor Material | BC - Bare Copper |

INSULATION :

| | |
|----------------------------------|-----------------|
| Twisted Pair Insulation Material | PO - Polyolefin |
| Twisted Pair Insulation Diameter | .035 in. |

Twisted Pair Color Code Chart :

| Number | Color |
|--------|-------------------------|
| 1 | Blue and White/Blue |
| 2 | Orange and White/Orange |

INNER SHIELD :

| | |
|------------------------------------|------------|
| Twisted Pair Inner Shield Material | Unshielded |
|------------------------------------|------------|

MULTICONDUCTOR CABLE(S):

CONDUCTOR :

| | |
|------------------------------------|--------------------|
| Number of Conductors | 2 |
| Multi-Conductor AWG | 16 |
| Multi-Conductor Stranding | 19x29 |
| Multi-Conductor Conductor Diameter | .059 in. |
| Multi-Conductor Conductor Material | TC - Tinned Copper |

INSULATION :

| | |
|-------------------------------------|--------------------------|
| Multi-Conductor Insulation Material | PVC - Polyvinyl Chloride |
|-------------------------------------|--------------------------|

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Multi-Conductor Insulation Diameter .080 in.

Multi-Conductor Insulation Color Code Chart :

| Number | Color | Number | Color |
|--------|-------|--------|-------|
| 1 | Red | 2 | Black |

OVERALL CABLING:

CONDUCTOR :

Total Number of Conductors 6

OUTER SHIELD :

Overall Cabling Outer Shield Material Unshielded

OUTER JACKET :

Overall Cabling Outer Jacket Material F-R PVC - Flame Retardant Polyvinyl Chloride

OVERALL DIAMETER :

Overall Composite Cabling Nominal Diameter .208 x .426 in.

MECHANICAL CHARACTERISTICS:

OVERALL CABLING:

Overall Cabling Operating Temperature Range -20°C To +75°C

Overall Cabling Bulk Cable Weight 43 lbs/1000 ft.

Overall Cabling Max. Recommended Pulling Tension 100 lbs.

Overall Cabling Min. Bend Rad.(Install)/Minor Axis 2 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

COAX:

APPLICABLE STANDARDS :

Coax EU CE Mark (Y/N) Yes

OVERALL CABLING:

APPLICABLE STANDARDS :

Overall Cabling NEC/(UL) Specification CMR

Overall Cabling CEC/C(UL) Specification CMG

Overall Cabling IEC Specification ISO/IEC 11801, Category 5e for data pair

Overall Cabling EU RoHS Compliant (Y/N) Yes

Overall Cabling EU RoHS Compliance (mm/dd/yyyy): 04/01/2005

FLAME TEST :

Overall Cabling UL Flame Test UL1666 Riser

Overall Cabling C(UL) Flame Test FT4

PLENUM/NON-PLENUM :

Overall Cabling Plenum (Y/N) N

Overall Cabling Plenum Number 6284US

ELECTRICAL CHARACTERISTICS:

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TWISTED PAIR CABLE(S):

| | |
|---|-------------------|
| Twisted Pair Nominal Velocity of Propagation | 70 % |
| Twisted Pair Max. Cond. DC Resistance @ 20 Deg. C | 9.38 Ohms/1000 ft |
| Twisted Pair Max. DCR Unbalance @ 20 Deg. C | 5.0 % |

PREMISE :

Twisted Pair Premise Cable Electricals Table 1 :

| Frequency (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min. Return Loss (dB) | Min. Structural Return Loss (dB) |
|-----------------|-----------------------------|----------------|------------------|---------------|-----------------|-----------------------|----------------------------------|
| 1 | | | | | 60 | 20 | |
| 4 | | | | | 49 | 23 | |
| 8 | | | | | 43 | 24.5 | |
| 10 | | | | | 41 | 25 | |
| 16 | | | | | 36 | 25 | |
| 20 | | | | | 34 | 25 | |
| 25 | | | | | 31 | 24.3 | |
| 31.25 | | | | | 28 | 23.6 | |
| 62.5 | | | | | 19 | 21.5 | |
| 100 | | | | | 11 | 20.1 | |

Twisted Pair Premise Cable Electricals Table 2 :

| Frequency (MHz) | Input (Unfitted) Impedance (Ohms) | Fitted Impedance (Ohms) | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-----------------|-----------------------------------|-------------------------|------------------|--------------------|
| 1 | | | | 61 |
| 4 | | | | 49 |
| 8 | | | | 43 |
| 10 | | | | 41 |
| 16 | | | | 37 |
| 20 | | | | 35 |
| 25 | | | | 33 |
| 31.25 | | | | 31 |
| 62.5 | | | | 24 |
| 100 | | | | 21 |

Twisted Pair Premise Cable Electricals :

| Frequency (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. Structural Return Loss (dB) | Fitted Impedance (Ohms) |
|-----------------|-----------------------------|----------------|------------------|----------------------------------|-------------------------|
| 1.0 | 2.0 | | 62 | | 100 +/- 15% |
| 4.0 | 4.1 | | 53 | | 100 +/- 15% |
| 8.0 | 5.8 | | 48 | | 100 +/- 15% |
| 10.0 | 6.5 | | 47 | | 100 +/- 15% |
| 16.0 | 8.2 | | 44 | | 100 +/- 15% |
| 20.0 | 9.3 | | 42 | | 100 +/- 15% |
| 25.0 | 10.4 | | 41 | | 100 +/- 15% |
| 31.25 | 11.7 | | 39 | | 100 +/- 15% |
| 62.5 | 17.0 | | 35 | | 100 +/- 15% |
| 100 | 22.0 | | 32 | | 100 +/- 15% |

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MULTICONDUCTOR CABLE(S):

Multi-Conductor Max. Cond.DC Resist. @ 20 Deg. C 4.5 Ohms/100 m

OVERALL CABLING:

Overall Cabling Max. Operating Voltage - Non-UL 300 V RMS

NOTES:

OVERALL CABLING:

Overall Cabling Notes Overall jacket sequentially marked.

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|--------------------------------|--------------|--------------------|--------------|-------|
| 5284US 0091000 | 2 PR #24 PP + 2 #16 PVC PVC | 1000 | 48 | WHITE | C |
| 5284US 009500 | 2 PR #24 PP + 2 #16 PVC PVC | 500 | 25.5 | WHITE | C |
| 5284US 0101000 | 2 PR #24 PP + 2 #16 PVC PVC | 1000 | 48 | BLACK | C |
| 5284US 010500 | 2 PR #24 PP + 2 #16 PVC PVC | 500 | 25.5 | BLACK | C |

C = CRATE REEL PUT-UP.

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