

9841 Paired - Low Capacitance EIA RS-485

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|  | <p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> <p style="text-align: center;">Color Code Chart : No. 5 for Paired Cables (Western Electric Standard).pdf</p> |
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Description:

24 AWG stranded (7x32) tinned copper conductors, twisted pair, polyethylene insulated, overall 100% Beldfoil® shield plus a 90% tinned copper braid shield, 24 AWG (7x32) tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|--------------------|
| Number of Pairs | 1 |
| Total Number of Conductors | 2 |
| AWG | 24 |
| Stranding | 7x32 |
| Conductor Material | TC - Tinned Copper |

INSULATION:

| | |
|---------------------|-------------------|
| Insulation Material | PE - Polyethylene |
|---------------------|-------------------|

PAIR:

Pair Lay Length :

| Lay Length (in.) | Direction | Twists/ft (twist/ft) |
|------------------|---------------|----------------------|
| 2.5 | Left Hand Lay | 4.8 |

| | |
|-----------------|-----|
| Pair Twists/ft. | 4.8 |
|-----------------|-----|

| | |
|-----------------------|---------------------------|
| Pair Color Code Chart | White/Blue and Blue/White |
|-----------------------|---------------------------|

OUTER SHIELD:

| | |
|----------------------------------|-----------|
| Outer Shield Material Trade Name | Beldfoil® |
|----------------------------------|-----------|

| | |
|-------------------|------------|
| Outer Shield Type | Tape/Braid |
|-------------------|------------|

Outer Shield Material :

| Layer Number | Material Trade Name | Type | Material | % Coverage (%) |
|--------------|---------------------|-------|------------------------------|----------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | Tinned Copper Braid Shield | 90 |

OUTER SHIELD DRAIN WIRE :

| | |
|-----------------------------|----|
| Outer Shield Drain Wire AWG | 24 |
|-----------------------------|----|

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|--|--------------------|
| Outer Shield Drain Wire Stranding | 7x32 |
| Outer Shield Drain Wire Conductor Material | TC - Tinned Copper |

OUTER JACKET:

| | |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .232 in. |
|--------------------------|----------|

MECHANICAL CHARACTERISTICS:

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|----------------------------------|-----------------|
| Operating Temperature Range | -30°C To +80°C |
| UL Temperature Rating | 80°C |
| Bulk Cable Weight | 36 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 72.3 lbs. |
| Min. Bend Radius (Install) | 2.5 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|-------------------------|-------------|
| NEC/(UL) Specification | CM |
| CEC/C(UL) Specification | CM |
| AWM Specification | 2919 (30 V) |

PLENUM/NON-PLENUM:

| | |
|---------------|--------------|
| Plenum (Y/N) | N |
| Plenum Number | 82841, 89841 |

ELECTRICAL CHARACTERISTICS:

| | |
|---|-------------------------------|
| Nom. Characteristic Impedance | 120 Ohms |
| Nom. Capacitance Conductor to Conductor @ 1 KHz | 12.8 pF/ft |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz | 23 pF/ft |
| Nominal Velocity of Propagation | 66 % |
| Nominal Delay | 1.6 ns/ft |
| Nom. Conductor DC Resistance @ 20 Deg. C | 24 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20 Deg. C | 3.4 Ohms/1000 ft |
| Nom. Attenuation (dB/100 ft) | 0.6 (@ 1 MHz) dB/100 ft. |
| Max. Operating Voltage - UL | 300 V RMS |
| Other Maximum Continuous Currents | 2.1 Amps per conductor @ 25°C |

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|--------------|--------------------|--------------|--------------------|--------------|-------|
| 9841 060100 | 1 PR #24 PE SH PVC | 100 | 4.3 | CHROME | |
| 9841 0601000 | 1 PR #24 PE SH PVC | 1000 | 40 | CHROME | C |



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| | | | | | |
|-------------|--------------------|-----|----|--------|--|
| 9841 060500 | 1 PR #24 PE SH PVC | 500 | 20 | CHROME | |
|-------------|--------------------|-----|----|--------|--|

C = CRATE REEL PUT-UP.

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