

# BULLETIN

**Belden® Multi-media**

**Control cables are optimized**

**for all aspects of building**

**management, including the**

**monitoring of advanced control**

**systems and the management**

**of audio-video, environmental**

**and climate control systems.**

## Multi-media Control Cables for Analog and Digital System Controllers

Belden announces a new Multi-media Touch Panel Control cable for today's audio-video (A/V) and building management systems. When used in conjunction with a touch panel control, these cables facilitate the users' comfort, safety, security, convenience and personal entertainment.

### Versatility and Broad Application

These touch panel systems are increasingly popular for:

- > A/V system pre-programming
- > Environmental system pre-programming
- > Equipment self-monitoring and maintenance alert
- > Lighting system controllers
- > Ambient lighting and window shade automation
- > Automated signage
- > Climate control programming and pre-set
- > Energy consumption management, monitoring, and control
- > Audio system control
- > PC, A/V, and Internet integration; remote monitoring and control of building systems and security surveillance
- > Conference room meeting management and facilitation
- > Home theater
- > Home automation

### Ideal For A Variety of Protocols

Belden 1502R and 1502P are optimized for use with systems running the following protocols:

- > EIA-RS-422
- > EIA-RS-485
- > AMX® AXLink®
- > Crestron® Cresnet®

### Superior Performance

Belden Multi-media Control cables are comprised of a 22 AWG shielded data pair that offers excellent noise immunity and are precisely engineered and tested for 100 ohms impedance.

The 18 AWG signal/control pair is rated at 300V, with a temperature rating of 75°C. These components are cabled together and jacketed for flexibility and durability.

### Meets or Exceeds Industry Standards

1502R and 1502P are both tuned to 100 ohms impedance – and to all the physical and electrical requirements of:

- > EIA
  - RS-422
  - RS-485
- > NEC and UL(C) UL
  - 1502R: CMR FT4
  - 1502P: CMP FT6

Systems manufacturers:

- > AMX AXLink
- > Crestron Cresnet

### Construction Details

The data pair in the 1502R construction is comprised of two 22 AWG 7-strand tinned copper conductors insulated with foamed polyethylene (FPE) and color-coded Blue and White. They are shielded with a Beldfoil® tape and a drain wire.

The power pair has two 18 AWG 16-strand tinned copper conductors insulated with PVC and color-coded Black and Red. This composite cable is assembled and overall jacketed with PVC. It is available in Black, White or Aqua.

The data pair in 1502P is comprised of two 22 AWG 7-strand tinned copper conductors insulated with foamed FEP and color-coded Blue and White. They are shielded with Beldfoil tape and a drain wire. The power pair has two 18 AWG 16-strand tinned copper conductors insulated with plenum-rated PVC and color-coded Black and Red. This composite is assembled and overall jacketed with a Natural-colored, plenum-rated PVC jacket.

## Multi-media Control Cable

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/ Ft.	pF/ m	pF/ Ft.	pF/ m
<b>22 AWG</b> Stranded (7x30) TC Twisted Data Pair w/ Beldfoil® Shield, TC Drain Wire • <b>18 AWG</b> (16x30) TC Unshielded Power Pair • Rip Cord <b>FPE Insulation (Data) • F-R PVC Insulation (Power) • F-R PVC Jacket</b> (Available in Black, White or Aqua)																		
300V 75°C	<b>1502R</b> <small>new</small>	NEC: CMR	1 STP	Pair: Blue, White	500	152.4	21.0	9.5	Data: .025 .64	.039	.99	.250	6.35	14	46	35	115	
		CEC: CMR FT4	+2/C	White	1000	304.8	41.6	18.9	Power: .013 .33									
Sequential footing marking every two feet.																		
<b>22 AWG</b> (7x30) TC Twisted Pair w/ Beldfoil Shield, TC Drain Wire • <b>18 AWG</b> (16x30) TC Unshielded • Polypropylene Binder Tape • Rip Cord <b>Plenum • Foam FEP Insulation (Data) • Flamarrest® Insulation (Power) • Natural Flamarrest Jacket</b>																		
300V 75°C	<b>1502P</b> <small>new</small>	NEC: CMP	1 STP	Pair: Blue, White	1000	304.8	33.6	15.2	Data: .025 .64	.015	.381	.205	5.21	14	46	35	115	
		CEC: CMP FT6	+2/C	White					Power: .011 .28									
FEP = Fluorinated Ethylene-propylene • FPE = Foamed Polyethylene • F-R = Flame-retardant • STP = Shielded Twisted Pair • TC = Tinned Copper *Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.																		

### Applications

- > Multi-media Control
- > Home Theater/Home Automation
- > Sound/Audio Systems
- > Power Limited Controls
- > Media Controls
- > Analog or Digital Controllers
- > EIA-RS-422 or EIA-RS-485 based
- > Optimized for most popular controllers and their protocols
- > AMX® AXLink®
- > Crestron® Cresnet®

For More Information:

[www.belden.com](http://www.belden.com)

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