

# CTL Series

Comm-Link Control System Cable



## CTL

Comm-Link Control System Cable

### UNIQUE FEATURES

- Two 18 AWG conductors and a low capacitance shielded twisted pair with drain wire in a single jacket
- NEC CM rated, non-plenum cable

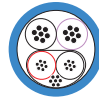


## CTLP

Comm-Link Control System Cable

### UNIQUE FEATURES

- Two 18 AWG conductors and a low capacitance shielded twisted pair with drain wire in a single jacket
- NEC CMP rated, plenum cable



## CTL24LC-2P

Low Capacitance Serial Control Dual Cable

### UNIQUE FEATURES

- High performance cable for distribution of serial control
- Two twisted pair 24 AWG tinned copper insulated conductors within an overall outer aluminum polyester foil shield and a tinned copper drain wire wrapped in a single jacket
- NEC CMP rated, plenum cable



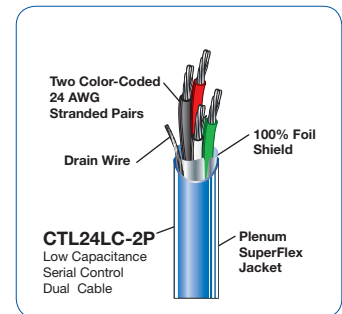
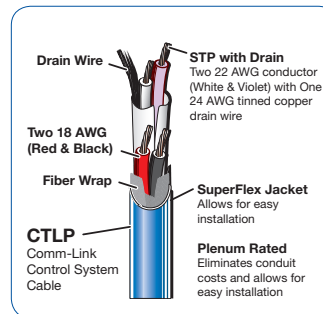
## COMMON FEATURES

- **Plenum and Non-Plenum rated versions available** — Depending on the model, Extron Comm-Link cable is available with a plenum or non plenum-rated SuperFlex jacket. Plenum-rated cable is for use in open air spaces without conduit, thereby reducing installation cost, where National Electric Code CM or CMP cable must be installed.
- **SuperFlex jacket with sequential numbering** — Comm-Link cable features the smooth SuperFlex jacket with sequential numbering that enables quick calculation of the cable used and remaining on the spool.
- Spools of 500 feet (150 m) & 1,000 feet (300 m)

RS-422 or RS-485 serial control applications. This twisted pair cable provides the fast signal rise times required by today's control systems, resulting in reliable communications and executed commands, with the overall shield isolating interference and emission.

## DESCRIPTION

The Extron **CTL Series** Comm-Link Control Systems Cable is ideal for connecting control system components. The **CTL** and **CTLP** models are perfectly suited for carrying control communications due to the low capacitance rating on the data pair wires, while the additional conductors transmit power and communications. The **CTL24LC-2P** cable is ideal for RS-232,



MODEL	VERSION DESCRIPTION	PART #
<b>Comm-Link Non-Plenum</b>		
CTL/500	Non-Plenum 500' (150 m) spool.....	22-148-02
CTL/1000	Non-Plenum 1000' (300 m) spool.....	22-148-03
<b>Comm-Link Plenum</b>		
CTLP/500	Plenum 500' (150 m) spool.....	22-119-02
CTLP/1000	Plenum 1000' (300 m) spool.....	22-119-03
<b>Low Capacitance Dual Plenum</b>		
CTL24LC-2P/1000	Plenum 1000' (300 m) spool.....	22-195-03

Continued →

CTL Series




DESCRIPTION (CONTINUED)

All three CTL Series cables are suitable for interconnecting Extron MediaLink™ Controllers to MLS switchers, SCP Control Panels to System 5 IP and System 7SC switchers, as well as linking other control system manufacturer's components to controllers and control panels. Depending upon the model, the CTL Series cable is available in both NEC CMP plenum and NEC CM non-plenum rated versions.

The CTL and CTLP cables feature two color-coded 18 AWG, double-shielded conductors, two 22 AWG low capacitance shielded twisted pair cables, and a drain wire providing excellent performance and reduced interference. The CTLP cable features a plenum-rated jacket.

The CTL24LC-2P Low Capacitance Serial Control Dual Cable is a high performance solution for transmission and distribution of serial control signals, such as RS-232 with handshake, RS-422, and RS-485, in a variety of education, commercial, broadcast, and government serial control AV applications.

The CTL24LC-2P cable features four color-coded or two twisted pair 24 AWG tinned copper insulated conductors within an overall outer aluminum polyester foil shield and a tinned copper drain wire wrapped in a single jacket. The lead-free CTL24LC-2P cable is NEC CMP plenum rated.

Description Part No. (length) Model	UL NEC/ C(UL) CEC UL AWM Temp.	No. of Cond.	Standard Lengths		Shipping Weights		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials (% coverage) Nom. DCR	Nominal OD		Nom. Imp. (ohms)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/ft	pF/m	MHz	dB/ 100 ft	dB/ 100 m
<b>Composite Cable: (2) 18 AWG Insulated Conductors • (2) 22 AWG Insulated Conductors with Shield</b>																			
<b>Nonplenum Cable • Gas Injected Foamed Polyolefin Insulation • PVC Inner Jackets • Gray PVC Outer Jacket</b>																			
<b>22-148-02 (500')</b> <b>22-148-03 (1000')</b> <b>CTL</b>   min. bend radius 2.5"	NEC CL2 CM UL 1581 CSA FT-4 75 °C	2 insulated conductors	500	152.4	21	9.5	18 AWG (19/30) 0.048" 1.22 mm, Bare Cu 6.2 ohms/ 1k ft 20.3 ohms/ 1 km	0.065	1.65	Alum. Foil (100%) Tinned Cu Serve (95%) 12.2 ohms/ 1k ft, 40.0 ohms/ 1 km	Single: red, black								
		2 insulated conductors	1000	304.8	44	20.0	22 AWG (7/30) 0.030" 0.76 mm, Bare Cu 14.7 ohms/ 1k ft 48.2 ohms/ 1 km	0.068	1.73	Alum./ Polyester Tape with 24 AWG Tinned Cu Drain Wire Under Tape (100%) 26 ohms/ 1k ft 85.3 ohms/ 1 km	Single: white, violet Shielded Pair: 0.140 3.56	90	78	17.3	56.8				
		Overall cable										Overall: 0.220 5.59 gray							
<b>Plenum Cable • Gas-injected Foamed FEP Insulation • PVC and FEP Inner Jackets • Blue Flame-retardant PVC Outer Jacket</b>																			
<b>22-119-02 (500')</b> <b>22-119-03 (1000')</b> <b>CTLP</b>   min. bend radius 5.0"	NEC CL2P CMP UL 910 CSA FT-6 60 °C	2 insulated conductors	500	152.4	22	9.9	18 AWG (19/30) 0.048" 1.22 mm, Bare Cu 6.2 ohms/ 1k ft 20.3 ohms/ 1 km	0.065	1.65	Alum. Foil (100%) Tinned Cu Serve (95%) 12.2 ohms/ 1k ft, 40.0 ohms/ 1 km	Single: red, black								
		2 insulated conductors	1000	304.8	46	20.7	22 AWG (7/30) 0.030" 0.76 mm, Bare Cu 14.7 ohms/ 1k ft 48.2 ohms/ 1 km	0.068	1.73	Alum./ Polyester Tape with 24 AWG Tinned Cu Drain Wire Under Tape (100%) 26 ohms/ 1k ft 85.3 ohms/ 1 km	Single: white, violet Shielded Pair: 0.140 3.56	90	78	17.3	56.8				
		Overall cable										Alum. Foil and Tinned Cu Braid (85%)	Overall: 0.250 6.35 blue						
<b>22-195-03 (1000')</b> <b>CTL24LC-2P</b>   min. bend radius 4.0"	NEC CMP UL 910 60 °C	2 shielded twisted pairs	1000	304.8	25	11.3	24 AWG (7/32) 0.024" 0.61 mm, Tinned Cu 24 ohms/ 1k ft, 79 ohms 1 km	0.056	1.42	Overall Cable: Alum./ Polyester Foil with 24 AWG Tinned Cu Drain Wire (100%) 15 ohms/ 1k ft, 49 ohms/ 1 km	Single: red, black, green, white  Overall: 0.215 5.46 blue	24	68%	16	52 conductor- conductor	30	98 conductor- conductor, connected to shield		

NOTE: Specifications are subject to change without notice.

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