

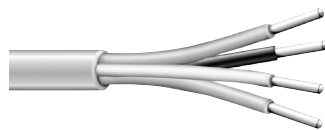
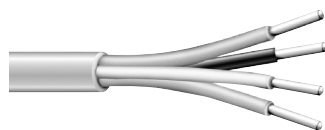
CAROL® Electronics Quick Reference Applications Guide



Prismian Group manufactures the most comprehensive line of CAROL® Electronics Cables available today for signal & data transmission, security, fire alarm & life safety, sound and audio/video & home entertainment. Our products are readily available for immediate shipment through a network of authorized stocking distributors and distribution centers.

Alarm and Security:

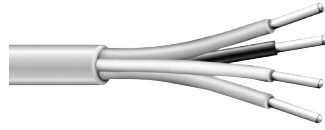
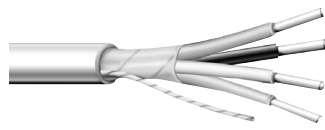
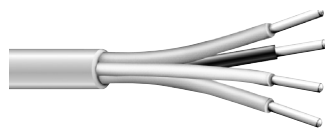
CAROL® Electronics is the right solution for your alarm and security needs. CAROL® offers as broad an offering as anyone in the industry. Our Alarm & Security Solutions Guide makes it easier to specify and sell the right cables for every application in this ever-growing market.



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
PLENUM UNSHIELDED ALARM AND SECURITY		
E3004S	22/4 Multi-Cond. 7/30TC SHLD CM	<ul style="list-style-type: none"> Power-Limited Control Circuits Wiring of Intercom, Security, Audio, Background Music Suggested Voltage Rating: 300 V
E3032S	18/2 Multi-Cond. 7/30TC SHLD CM	
E3034S	18/4 Multi-Cond. 16/30TC SHLD CM	
E3033S	18/3 Multi-Cond. 16/30TC SHLD CM	
E3042S	16/2 Multi-Cond. 19/30TC SHLD CM	
PLENUM SHIELDED ALARM AND SECURITY		
E2104S	22/4 Multi-Cond. 7/30BC OA SH CMP/CL3P	<ul style="list-style-type: none"> Power-Limited Control Circuits Wiring of Intercom, Security, Audio, Background Music Suggested Voltage Rating: 300 V
E2106S	22/6 Multi-Cond. 7/30BC OA SH CMP/CL3P	
E2202S	18/2 Multi-Cond. 7/26BC OA SH CMP/CL3P	
E2204S	18/4 Multi-Cond. 7/26BC OA SH CMP/CL3P	
E2206S	18/6 Multi-Cond. 7/26BC OA SH CMP/CL3P	
RISER (NON-PLENUM) UNSHIELDED ALARM AND SECURITY		
E1002S	22/2 Multi-Cond. 7/30BC UNSH CMR/CL3R	<ul style="list-style-type: none"> Power-Limited Control Circuits Wiring of Intercom, Security, Audio, Background Music Suggested Voltage Rating: 300 V
E1004S	22/4 Multi-Cond. 7/30BC UNSH CMR/CL3R	
E1032S	18/2 Multi-Cond. 7/26BC UNSH CMR/CL3R	
E1034S	18/4 Multi-Cond. 7/26BC UNSH CMR/CL3R	
E1042S	16/2 Multi-Cond. 19/0117BC UNSH CMR	
RISER (NON-PLENUM) SHIELDED ALARM AND SECURITY		
E2002S	22/2 Multi-Cond. 7/30BC OA SH CMR/CL3R	<ul style="list-style-type: none"> Power-Limited Control Circuits Wiring of Intercom, Security, Audio, Background Music Suggested Voltage Rating: 300 V
E2032S	18/2 Multi-Cond. 7/26BC OA SH CMR/CL3R	
E2033S	18/3 Multi-Cond. 7/26BC OA SH CMR/CL3R	
E2034S	18/4 Multi-Cond. 7/26BC OA SH CMR/CL3R	
E2042S	16/2 Multi-Cond. 19/0117BC OA SH CMR	

Fire Alarm:

CAROL® Electronic's offering has expanded from a rather simple and unsophisticated business configured upon large, electromechanical devices to one relying upon the most modern technologies of microprocessor and chip technology. Our designs have proven themselves in the area of fire system security over time; all are fabricated with solid, bare copper conductors and insulations and jackets of premium-grade PVC. Offered both with and without shields, the former to protect these critical circuits from noise, these cables will provide the latest in available technology for the system installer and contractor.



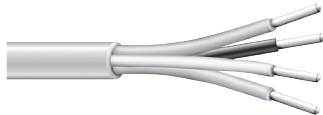
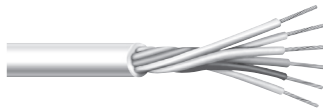
PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
PLENUM UNSHIELDED FIRE ALARM		
E3502S	1/28 Multi-Cond. SBC PVC/NS/FLEX FPLP	<ul style="list-style-type: none"> Residential Housing Business and Office Campus Environments Public Stadiums and Arenas Airport, Train, Bus and Other Transportation Hubs Schools, Colleges and Universities Commercial Buildings
E3504S	18/4 Multi-Cond. SBC PVC/NS/FLEX FPLP	
E3512S	16/2 Multi-Cond. SBC PVC/NS/FLEX FPLP	
E3522S	14/2 Multi-Cond. SBC PVC/NS/FLEX FPLP	
E3532S	12/2 Multi-Cond. SBC PVC/NS/FLEX FPLP	
PLENUM SHIELDED FIRE ALARM		
E3602S	18/2 Multi-Cond. SBC PVC/OA/FLEX FPLP	<ul style="list-style-type: none"> Residential Housing Business and Office Campus Environments Public Stadiums and Arenas Airport, Train, Bus and Other Transportation Hubs Schools, Colleges and Universities Commercial Buildings
E3604S	18/4 Multi-Cond. SBC PVC/OA/FLEX FPLP/CMP	
E3612S	16/2 Multi-Cond. SBC PVC/OA/FLEX FPLP	
E3622S	14/2 Multi-Cond. SBC PVC/OA/FLEX FPLP	
E3632S	12/2 Multi-Cond. SBC PVC/OA/FLEX FPLP/CMP	
RISER (NON-PLENUM) UNSHIELDED FIRE ALARM		
E1502S	18/2 Multi-Cond. SBC UNSH TYPE FPLR	<ul style="list-style-type: none"> Residential Housing Business and Office Campus Environments Public Stadiums and Arenas Airport, Train, Bus and Other Transportation Hubs Schools, Colleges and Universities Commercial Buildings
E1504S	18/4 Multi-Cond. SBC UNSH TYPE FPLR	
E1512S	16/2 Multi-Cond. SBC UNSH TYPE FPLR	
E1522S	14/2 Multi-Cond. SBC UNSH TYPE FPLR	
E1532S	12/2 Multi-Cond. SBC UNSH TYPE FPLR	
RISER (NON-PLENUM) SHIELDED FIRE ALARM		
E2502S	18/2 Multi-Cond. SBC OA SH TYPE FPLR	<ul style="list-style-type: none"> Residential Housing Business and Office Campus Environments Public Stadiums and Arenas Airport, Train, Bus and Other Transportation Hubs Schools, Colleges and Universities Commercial Buildings
E2504S	18/4 Multi-Cond. SBC OA SH TYPE FPLR	
E2522S	16/2 Multi-Cond. SBC OA SH TYPE FPLR	
E2524S	16/4 Multi-Cond. SBC OA SH TYPE FPLR	
E2532S	14/2 Multi-Cond. SBC OA SH TYPE FPLR	

NOTE: Other gauges, colors and packaging are available. Contact your Prismian Group representative for additional ordering options.

Classics – Comm & Control:

Paired cable designs find frequent application in circuits requiring circuit-to-circuit isolation from noise, minimization of capacitance imbalances and a reduction of EMI interference currents. Circuit separation is further enhanced in those designs employing individual circuit shields in concert with an overall shield. These CAROL® shielding systems are available in myriad combinations to suit the unique needs of the circuit designer.

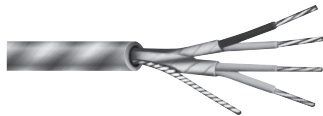
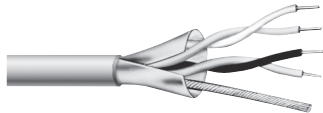
* Paired constructions are also available



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
RISER SHIELDED CLASSICS		
C2514A	22/2 Multi-Cond. 7/30TC SHLD CM	<ul style="list-style-type: none"> • Remote and Process Control • Public Address Systems • Building Automation for EIA 232 Serial Applications • HVAC/Lighting
C0763A	22/6 Multi-Cond. 7/30TC SHLD CM	
C2534A	18/2 Multi-Cond. 16/30TC SHLD CM	
C2535A	18/3 Multi-Cond. 16/30TC SHLD CM	
C2543A	18/4 Multi-Cond. 19/30TC SHLD CM	
RISER UNSHIELDED CLASSICS		
C6348A	22/2 Multi-Cond. 7/30TC UNSH CM	<ul style="list-style-type: none"> • Remote and Process Control • Public Address Systems • Building Automation for EIA 232 Serial Applications • HVAC/Lighting
C4062A	22/3 Multi-Cond. 7/30TC UNSH CM	
C4063A	22/4 Multi-Cond. 7/30TC UNSH CM	
C6351A	20/2 Multi-Cond. 7/28TC UNSH CM	
C2831A	18/3 Multi-Cond. 16/30TC UNSH CM	
PLENUM SHIELDED CLASSICS		
C3158	22/2 Multi-Cond. 7/30TC PVC/SHLD/FLEX CMP	<ul style="list-style-type: none"> • Remote and Process Control • Public Address Systems • Building Automation for EIA 232 Serial Applications • HVAC/Lighting
C3062	18/2 Multi-Cond. 7/26BC PVC/SHLD/FLEX CMP	
C3063	18/4 Multi-Cond. 7/26BC PVC/SHLD/FLEX CMP	
C3065	18/6 Multi-Cond. 7/26BC PVC/SHLD/FLEX CMP	
C3068	16/2 Multi-Cond. 19/0117BC SHLD/FLEX CMP	
PLENUM UNSHIELDED CLASSICS		
C3115	22/2 Multi-Cond. 7/30TC PVC/UNSH/FLEX CMP	<ul style="list-style-type: none"> • Remote and Process Control • Public Address Systems • Building Automation for EIA 232 Serial Applications • HVAC/Lighting
C3112	18/2 Multi-Cond. 7/26BC PVC/UNSH/FLEX CMP	
C3113	18/4 Multi-Cond. 7/26BC PVC/UNSH/FLEX CMP	
C3122	18/8 Multi-Cond. 7/26BC PVC/UNSH/FLEX CMP	
C3128	14/2 Multi-Cond. 19/0147BC UNSH/FLEX CL3P	

Classics – Hi-Temp:

As with the multi-conductor designs, a wide array of insulating and jacketing materials are available to meet specific electronic applications. CAROL® communication cable products are manufactured to meet the latest UL, CSA and NEC requirements and approvals.



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
MULTI-PAIRED UNSHIELDED HI-TEMP CLASSICS		
C8122	18/1 Multi-Pr. 19/30TC UNSH FLP/PVC CMP	<ul style="list-style-type: none"> • Remote Control Circuits • Process Control and Instrumentation • Suggested Voltage Rating: 300 V
MULTI-PAIRED SHIELDED HI-TEMP CLASSICS		
C8118	24/2 Multi-Pr. 7/32TC SHLD FFEP/PVDF CMP	<ul style="list-style-type: none"> • Remote Control Circuits • Process Control and Instrumentation • Suggested Voltage Rating: 300 V
C8109	22/1 Multi-Pr. 7/30TC SHLD FEP/FEP CMP	
C8103	22/1 Multi-Pr. 7/30TC SHLD FEP/PVDF CMP	
C8101	18/1 Multi-Pr. 19/30TC SHLD FEP/FEP CMP	
C8104	18/1 Multi-Pr. 19/30TC SHLD FEP/PVDF CMP	
C8127	24/1 Multi-Pr. 7/32TC SHLD FEP/PVC CMP	
C8113	24/3 Multi-Pr. 7/32TC SHLD FEP/LSPVC CMP	
C8126	22/1 Multi-Pr. 7/30TC SHLD FEP/PVC CMP	
C8124	22/1 Multi-Pr. 7/30TC SHLD FEP/PVC CMP	
C8123	18/1 Multi-Pr. 19/30TC SHLD FEP/PVC CMP	
MULTI-PAIRED DUAL SHIELDED HI-TEMP CLASSICS		
C8117	24/1 Multi-Pr. 7/32TC FOIL/BRD SHLD FEP/FEP CMP	<ul style="list-style-type: none"> • Remote Control Circuits
C8129	24/2 Multi-Pr. 7/32TC FOIL/BRD SHLD FFEP/PVDF CMP	
MULTI-PAIRED INDIVIDUALLY SHIELDED HI-TEMP CLASSICS		
C8134	24/2 Multi-Pr. 7/32TC ISHLD FFEP/PVC CMP	<ul style="list-style-type: none"> • Remote Control Circuits • Process Control and Instrumentation • Suggested Voltage Rating: 300 V
C8105	22/2 Multi-Pr. 7/30TC ISHLD FEP/PVC CMP	
C8131	22/3 Multi-Pr. 7/30TC ISHLD FEP/PVC CMP	
C8133	22/6 Multi-Pr. 7/30TC ISHLD FEP/PVC CMP	
C8112	22/2 Multi-Pr. 7/30TC ISHLD FEP/FEP CMP	
C8132	22/6 Multi-Pr. 7/30TC ISHLD FEP/FEP CMP	
C8128	24/2 Multi-Pr. 7/32TC ISHLD FFEP/PVDF CMP	
MULTI-CONDUCTOR UNSHIELDED HI-TEMP CLASSICS		
C8102	18/4 Multi-Cond. 19/30TC UNSH FEP/FEP CMP	<ul style="list-style-type: none"> • Process Control and Instrumentation
MULTI-CONDUCTOR SHIELDED HI-TEMP CLASSICS		
C8106	18/3 Multi-Cond. 19/30TC SHLD FEP/FEP CMP	<ul style="list-style-type: none"> • Process Control and Instrumentation
C8114	18/4 Multi-Cond. 19/30TC SHLD FEP/FEP CMP	
MULTI-CONDUCTOR DUAL SHIELDED HI-TEMP CLASSICS		
C8107	18/3 Multi-Cond. 19/30TC FOIL/BRD SHLD FEP/FEP CMP	<ul style="list-style-type: none"> • Remote Control Circuits • Process Control and Instrumentation • Suggested Voltage Rating: 300 V
C8110	18/4 Multi-Cond. 19/30TC FOIL/BRD SHLD FEP/FEP CMP	
C8120	18/6 Multi-Cond. 19/30TC FOIL/BRD SHLD FEP/FEP CMP	
C8111	16/2 Multi-Cond. 19/29TC FOIL/BRD SHLD FEP/FEP CMP	
C8119	16/3 Multi-Cond. 19/29TC FOIL/BRD SHLD FEP/FEP CMP	
C8108	16/6 Multi-Cond. 19/29TC FOIL/BRD SHLD FEP/FEP CMP	

NOTE: Other gauges, colors and packaging are available. Contact your Prysmian Group representative for additional ordering options.

EXZEL®:

EXZEL® High-Endurance Electronic Cables are manufactured with the selection, quality and dependability our customers have come to expect from CAROL®. From special jacket colors, print legends and TRU-Mark® sequential footage markings to unique constructions, innovative materials and quality manufacturing, our expert engineers offer superior service and design assistance.

*Paired constructions are available

*LSZH constructions are available



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
MULTI-CONDUCTOR UNSHIELDED COMMUNICATION AND CONTROL		
C9009A	22/2 Multi-Cond. 7/30TC UNSH CM	<ul style="list-style-type: none"> • Advanced Signal Transmission in Controlled Environments • Medical Instrumentation and Equipment • Consumer Electronic Peripherals • Industrial Process Control Systems • Suitable for EIA-RS-232 Applications
C9010A	22/3 Multi-Cond. 7/30TC UNSH CM	
C9011A	22/4 Multi-Cond. 7/30TC UNSH CM	
C9012A	22/6 Multi-Cond. 7/30TC UNSH CM	
C9013A	22/8 Multi-Cond. 7/30TC UNSH CM	
C9014A	22/10 Multi-Cond. 7/30TC UNSH CM	
C9015A	22/15 Multi-Cond. 7/30TC UNSH CM	
C9018A	20/2 Multi-Cond. 7/28TC UNSH CM	
C9019A	20/3 Multi-Cond. 7/28TC UNSH CM	
C9020A	20/4 Multi-Cond. 7/28TC UNSH CM	
C9021A	20/6 Multi-Cond. 7/28TC UNSH CM	
C9022A	20/8 Multi-Cond. 7/28TC UNSH CM	
C9023A	20/10 Multi-Cond. 7/28TC UNSH CM	
C9024A	20/15 Multi-Cond. 7/28TC UNSH CM	
C9028A	2/18 Multi-Cond. 16/30TC UNSH CM	
C9030A	3/18 Multi-Cond. 16/30TC UNSH CM	
C9031A	4/18 Multi-Cond. 16/30TC UNSH CM	
C9032A	6/18 Multi-Cond. 16/30TC UNSH CM	
C9033A	8/18 Multi-Cond. 16/30TC UNSH CM	
C9034A	10/18 Multi-Cond. 16/30TC UNSH CM	
C9035A	15/18 Multi-Cond. 16/30TC UNSH CM	
C9039A	2/16 Multi-Cond. 19/0117TC UNSH CM	
C9041A	3/16 Multi-Cond. 19/0117TC UNSH CM	
C9042A	4/16 Multi-Cond. 19/0117TC UNSH CM	
C9043A	6/16 Multi-Cond. 19/0117TC UNSH CM	
C9044A	8/16 Multi-Cond. 19/0117TC UNSH CM	
C9045A	10/16 Multi-Cond. 19/0117TC UNSH CM	



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
MULTI-CONDUCTOR SHIELDED COMMUNICATION AND CONTROL		
C9109A	22/2 Multi-Cond. 7/30TC SHLD CM	<ul style="list-style-type: none"> • Advanced Signal Transmission in Controlled Environments • Medical Instrumentation and Equipment • Consumer Electronic Peripherals • Industrial Process Control Systems • Suitable for EIA-RS-232 Applications
C9110A	22/3 Multi-Cond. 7/30TC SHLD CM	
C9111A	22/4 Multi-Cond. 7/30TC SHLD CM	
C9112A	22/6 Multi-Cond. 7/30TC SHLD CM	
C9113A	22/8 Multi-Cond. 7/30TC SHLD CM	
C9114A	22/10 Multi-Cond. 7/30TC SHLD CM	
C9115A	22/15 Multi-Cond. 7/30TC SHLD CM	
C9118A	20/2 Multi-Cond. 7/28TC SHLD CM	
C9119A	20/3 Multi-Cond. 7/28TC SHLD CM	
C9120A	20/4 Multi-Cond. 7/28TC SHLD CM	
C9121A	20/6 Multi-Cond. 7/28TC SHLD CM	
C9122A	20/8 Multi-Cond. 7/28TC SHLD CM	
C9123A	20/10 Multi-Cond. 7/28TC SHLD CM	
C9124A	20/15 Multi-Cond. 7/28TC SHLD CM	
C9127A	18/2 Multi-Cond. 16/30TC SHLD CM	
C9129A	18/3 Multi-Cond. 16/30TC SHLD CM	
C9131A	18/4 Multi-Cond. 16/30TC SHLD CM	
C9132A	18/6 Multi-Cond. 16/30TC SHLD CM	
C9133A	18/8 Multi-Cond. 16/30TC SHLD CM	
C9134A	18/10 Multi-Cond. 16/30TC SHLD CM	
C9135A	18/15 Multi-Cond. 16/30TC SHLD CM	
C9138A	16/2 Multi-Cond. 19/0117TC SHLD CM	
C9140A	16/3 Multi-Cond. 19/0117TC SHLD CM	
C9142A	16/4 Multi-Cond. 19/0117TC SHLD CM	
C9143A	16/6 Multi-Cond. 19/0117TC SHLD CM	
C9144A	16/8 Multi-Cond. 19/0117TC SHLD CM	
C9145A	16/10 Multi-Cond. 19/0117TC SHLD CM	



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
MULTI-CONDUCTOR DUAL SHIELDED COMMUNICATION AND CONTROL		
C9209A	22/2 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	<ul style="list-style-type: none"> • Advanced Signal Transmission in Controlled Environments • Medical Instrumentation and Equipment • Consumer Electronic Peripherals • Industrial Process Control Systems • Suitable for EIA-RS-232 Applications
C9210A	22/3 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9211A	22/4 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9212A	22/6 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9213A	22/8 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9214A	22/10 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9215A	22/15 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9218A	20/2 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9219A	20/3 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9220A	20/4 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9221A	20/6 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9222A	20/8 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9223A	20/10 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9224A	20/15 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9228A	18/2 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9230A	18/3 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9231A	18/4 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9232A	18/6 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9233A	18/8 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	

NOTE: Other gauges, colors and packaging are available. Contact your Prysmian Group representative for additional ordering options.