

COMMUNICATION & CONTROL

BROADEST PRODUCT RANGE

Alpha utilizes its broad range of quality hook-up wires in the supply of Communications and Control Cables used for low voltage signal transmission. Considering the unique electrical, chemical and environmental properties for each specific cable type, the proper wires are selected and combined individually or in twisted pairs under a common protective sheath. Configurations range from simple unshielded multiconductor audio and control cables to individually shielded multipair computer cables with controlled impedance and capacitance.

ADVANCED CABLE DESIGN

The growing sophistication of the electronics industry continues to create a need for specially designed cables for use with computer-controlled electrical and electronic equipment. To satisfy requirements for impedance matching, lower bit error rates, lower cross-talk, longer transmission distances and high signal purity (EMI/RFI), Alpha is supplying an expanding family of Communications and Control Cables – in a full range of sizes, colors, insulations and shield types for installation in normal indoor environments.

LOGICAL SECTION LAYOUT

Alpha's extensive product selection is designed to put reliability at your fingertips and is arranged in a logical manner for your ordering convenience.

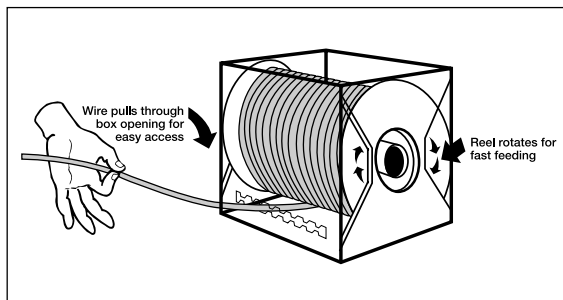
In this section, Alpha Communication and Control Cables are divided into multiconductor and multipair cables. Each category is sub-divided into unshielded and shielded constructions. The shielded products are separated by shield type.

For your convenience we sub-divided even further the plenum multiconductor and multipair cables. Fire alarm cables also categorized to make it easy to locate these special products.

AVAILABILITY

Alpha offers excellent quality, exceptional packaging and "on-the-shelf" inventory.

Alpha Communication and Control Cables are available in several categories of reels and cartons. The availability section on each page will help you to quickly identify the put-up you require. Many products are available in our Alpha QWIK – REEL® configuration.



Product Type	Page Number (s)
MULTICONDUCTOR	
Multiconductor Unshielded	180-186
Multiconductor Foil Shield	187-190
Multiconductor Spiral Wrap Shield	191
Multiconductor Braid Shield	192-206
Multiconductor Braid Shield/ Unshielded Combination	207
Multiconductor Foil/Braid Shield	208-211
MULTIPAIR	
Multipair Unshielded	212
Multipair Foil Shield	213-220
Multipair Foil/Braid Shield	221-226
Multipair Individually Foil Shielded	227-233
Multipair Individually & Overall Foil Shield	234
Multipair Individually & Overall Foil/Braid Shield	235
PLENUM	
Multiconductor	236
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HI-FI STEREO CABLES	240
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COMMUNICATION & CONTROL

MULTIPAIR DATA CABLES, INDIVIDUALLY SHIELDED

PP/PVC & INDIVIDUALLY AND OVERALL SHIELD

UL TYPE CM

UL 2717

CSA CMG FT4

RoHS COMPLIANT, 300 VOLT

APPLICATIONS

- Audio, Pulse or RF Signal Transmission
- Computer or Electronic Peripheral Interconnectors Where High Levels of Noise Interference Are Anticipated
- Banking Systems

CHARACTERISTICS

OPERATING TEMPERATURE:

- -20°C to 80°C – AWM
- 75°C – CM

VOLTAGE RATING:

- 400 Volt
- 300 Volt – CM

COLOR DESCRIPTION:

- Color Code: Part No. 2463C, 2466C, 2467C (Red and Black, Green and White, White/Red and White/Black, White/Green and White/Yellow)
Part No. 1243/2C Red/Black, Green/White
- Jacket Color: Gray

PRODUCT DESCRIPTION:

- Conductor: Stranded Tinned Copper
- Insulation: Color-Coded High Density Polypropylene (PP)
- Shield: Aluminum/Polyester
- Drain Wire: Stranded Tinned Copper Each Pair
Part No. 2463C and 2466C Have a Common Drain Wire
- Jacket: PVC

SPECIFICATIONS

- UL Type CM
- UL AWM 2717 (Part No. 1243/2C)
- CSA CMG FT4
- RoHS Compliant

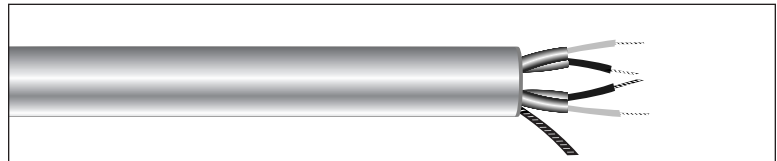


AVAILABILITY

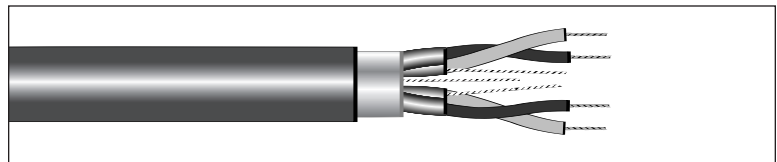
- 100 ft (30,5m), 500 ft (152m), 1000 ft (305m) put-ups
Contact Alpha for Alpha Qwik-Reel® payout package availability



ALPHA PART NO. 2467C



ALPHA PART NO. 2466C



ALPHA PART NO. 1243/2C

TYPICAL ELECTRICAL CHARACTERISTICS

Alpha Part No.	Capacitance				Z ₀ , @ 1 MHz, Ohms
	Cdr. To Cdr. pF/ft	Cdr. To Cdr. pF/m	Cdr. To Cdr. & Shield pF/ft	Cdr. To Cdr. & Shield pF/m	
2466C/1243/2C	25	82	51	167	58
2467C	24	72	44	144	66

MULTIPAIR INDIVIDUALLY SHIELDED

Alpha Part No.	AWG	Conductor		No. of Pairs	Insul. Thickness		Jacket Thickness		Diameter		
		mm ²	Strand		mm	Inches	mm	Inches	mm	Inches	
2463C	22	0,36	7/30	7 x 0,25	4	0.008	0,20	0.019	0,48	0.23	5,9
2466C	22	0,36	7/30	7 x 0,25	2	0.008	0,20	0.019	0,48	0.16	4,1
2467C	20	0,56	7/28	7 x 0,35	4	0.015	0,38	0.030	0,76	0.34	8,7

TWO PAIR INDIVIDUALLY AND OVERALL SHIELDED

Alpha Part No.	AWG	Conductor		Insulation Thickness		Jacket Thickness		Diameter		
		mm ²	Strand	mm	Inches	mm	Inches	mm	Inches	
1243/2C	22	0,36	7/30	7 x 0,25	0.008	0,20	0.030	0,76	0.20	5,1