

Alpha Wire **INDUSTRIAL** SERIES

TECHNOLOGICALLY ADVANCED CABLE SYSTEMS FOR AUTOMOTIVE AND INDUSTRIAL FACTORY AUTOMATION

Alpha Wire continues to offer “Powerful Solutions For Critical Applications” with the introduction of our new **Alpha Wire INDUSTRIAL** SERIES product line.

The **Alpha Wire INDUSTRIAL** SERIES offers technologically advanced cable systems for automotive and industrial factory automation. There is an **Alpha Wire INDUSTRIAL** SERIES cable product available to solve most existing critical and severe-duty application requirements.

When it has to be right, when dependability and quality are paramount, when safety and security are the primary issue, the **UL Exposed Run (-ER) Compliant Alpha Wire INDUSTRIAL** SERIES provides the total solution and sets the industry standard for performance, quality and reliability.

Specify **Alpha Wire INDUSTRIAL** SERIES: **SERIES F, SERIES M, SERIES L, SERIES P, SERIES S** and **SERIES V** for compliance with the 2005 National Electrical Code for cables installed in industrial establishments.

All **Alpha Wire INDUSTRIAL** SERIES products are designed and manufactured in the United States by Alpha's exacting team of engineers. If you don't find the cable you require in this catalog, we'll work with you to design what you need.



Manufactured In The U.S.A.

APPLICATIONS

- High Flexibility/High Bend Applications
- Factory Equipment Interconnects
- Robotics
- Machine Tools
- Automotive Assembly Equipment
- Conveyor Systems
- Control Panels
- Flex and Static Track
- Transfer Shuttles
- Automated Pick-and-Place Systems
- PLC Controlled Equipment
- C-Track or Stationary Applications
- Automated Handling Systems
- Regulation and Measurement of Motor Speeds and Positions For Use in Servo Motor Systems

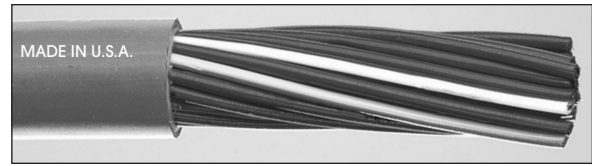
UL TYPE TC-ER 600 VOLT
 UL TYPE PLTC OPEN WIRING 300 VOLT
 DIRECT BURIAL, SUNLIGHT RESISTANT
 RoHS COMPLIANT, UL STANDARD 66 TYPE TFFN
 CSA AWM I/II A/B: 600 VOLT FT-4
 CE - LVD 73/68/EEC, AMEND. 93/68/EEC

Alpha Wire **INDUSTRIAL** SERIES

STATIONARY AUTOMOTIVE CONTROL CABLE

MINIMAL FLEX, OIL/CHEMICAL RESISTANT, MULTICONDUCTOR, UNSHIELDED

SERIES **M** HIGH PERFORMANCE, STATIONARY AUTOMOTIVE CONTROL CABLE



**THE ULTIMATE CABLE SOLUTION FOR
 STATIONARY/CABLE TRAY AND SOME MINIMAL
 FLEXING APPLICATIONS WITH SUPERIOR RESISTANCE
 TO OILS AND CHEMICALS**

CHOOSE SERIES M FOR:

- Cables Extending From Cable Tray For An Unlimited Distance UL Type PLTC or UL Type TC
- Improved Cable Life
- Reduced Cable Cost
- Oil Resistance
- Abrasion Resistance
- Jacket Durability

SERIES M APPLICATIONS:

- UL Compliant to NEC Section 725.61 (D) (4) and NEC Section 336.10 (7) For Extended Runs Exiting The Cable Tray
- Factory Equipment Interconnects
- Robotics
- Machine Tools
- Stationary Track/Tray
- Automotive Assembly Equipment
- Conveyor Systems
- Control Panels

AVAILABILITY

- ▲ **In Stock:** Bulk, Cut to Length
- 16 (Black Conductors Only) Cables are Made To Order, 1,000 Ft. Minimum, Non-Cancelable, Non-Returnable
- 18, 14, 12, 10 and 8 AWG Cables Are Made To Order, 1,000 Ft. Minimum, Non-Cancelable, Non-Returnable. Call Alpha for details.

RED INSULATION – AC Circuits Operating at Less Than Line Voltage
BLUE INSULATION – DC Circuits Operating at Less Than Line Voltage
BLACK INSULATION – AC Circuits Operating at Less Than Line Voltage

CHARACTERISTICS

OPERATING TEMPERATURE:

- -25°C to 90°C (75°C Wet)

VOLTAGE RATING:

- 600 Volt

COLOR DESCRIPTION:

- Color Code: Red (RW), Blue (LW) or Black (KW) Alpha-Numeric Conductors
- White Striped Neutral (>12 Conductors)
- Green/Yellow Ground Conductor
- Jacket Color: Gray

PRODUCT DESCRIPTION:

- Conductor: Class K Stranded Bare Copper
- Insulation: Red, Blue or Black PVC/Nylon
- Jacket: Specially Formulated Oil Resistant PVC

SPECIFICATIONS

- UL Standard 66, Type TFFN PVC/Nylon Conductors
- UL Standard 1277, Type TC-ER, 90°C, 600 Volt
- UL Standard 13, Type PLTC, 90°C, 300 Volt
 - UL Sunlight Resistant
 - UL Open Wiring
- UL Direct Burial
- CSA C22.2 No. 210.2 AWM I/II A/B 90°C, 600 Volt, FT-4
- CE Low Voltage Directive: 73/68/EEC
 - Amendment 93/68/EEC
- RoHS Compliant



FIT® TUBING RECOMMENDATION

- FIT® 221** – General Purpose, Irradiated Polyolefin
 (See Pages 114, 115 for Product Specifications)
- FIT® -321** – Medium Wall, Adhesive Lined, Irradiated Polyolefin
 (See Page 121 for Product Specifications)

16 AWG (1,32mm ²), 26/30 BC, Insulation Thickness 0.016" PVC (0,4mm)/0.005" Nylon (0,1mm)									
Red Conductors Alpha Part No.	Blue Conductors Alpha Part No.	Black Conductors Alpha Part No.	No. of Cond.	Primary O.D. Inches	Primary O.D. mm	Jacket Thickness Inches	Jacket Thickness mm	Nominal Inches	Diameter mm
▲M16103RW	▲M16103LW	M16103KW	3	0.102	2,6	0.050	1,3	0.325	8,3
▲M16104RW	▲M16104LW	M16104KW	4	0.102	2,6	0.050	1,3	0.350	8,9
▲M16105RW	▲M16105LW	M16105KW	5	0.102	2,6	0.050	1,3	0.380	9,7
▲M16107RW	▲M16107LW	M16107KW	7	0.102	2,6	0.050	1,3	0.410	10,4
▲M16112RW	▲M16112LW	M16112KW	12	0.102	2,6	0.065	1,7	0.575	14,6
▲M16117RW	▲M16117LW	M16117KW	17	0.102	2,6	0.065	1,7	0.645	16,4
▲M16119RW	▲M16119LW	M16119KW	19	0.102	2,6	0.065	1,7	0.644	16,3
▲M16122RW	▲M16122LW	M16122KW	22	0.102	2,6	0.065	1,7	0.705	17,9
▲M16125RW	▲M16125LW	M16125KW	25	0.102	2,6	0.065	1,7	0.760	19,3
▲M16133RW	▲M16133LW	M16133KW	33	0.102	2,6	0.085	2,2	0.855	21,7
▲M16142RW	▲M16142LW	M16142KW	42	0.102	2,6	0.085	2,2	0.950	24,1
▲M16149RW	▲M16149LW	M16149KW	49	0.102	2,6	0.085	2,2	1.005	25,5
▲M16165RW	▲M16165LW	M16165KW	65	0.102	2,6	0.085	2,2	1.120	28,4

FOR COMPLETE SERIES F PRODUCT PERFORMANCE DATA, SEE PAGE 367.

