

Alpha Wire INDUSTRIAL SERIES

FLEXIBLE AUTOMOTIVE CONTROL CABLE

MAXIMUM FLEXIBILITY, OIL/CHEMICAL RESISTANT, MULTICONDUCTOR, UNSHIELDED

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

SERIES F HIGH PERFORMANCE, FLEXIBLE AUTOMOTIVE CONTROL CABLE

THE ULTIMATE CABLE SOLUTION FOR SEVERE
FLEXING APPLICATIONS AND SUPERIOR
RESISTANCE TO OILS AND CHEMICALS

CHOOSE SERIES F FOR:

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

SERIES F APPLICATIONS:

- UL Compliant to NEC Section 725.61 (D) (4) and NEC Section 336.10 (7) For Extended Runs Exiting The Cable Tray
- High Flexibility/High Bend Applications
- Factory Equipment Interconnects
- Automotive Assembly Equipment
- Conveyor Systems
- Control Panels
- Machine Tools
- Robotics
- Flex and Static Track
- Transfer Shuttles

SERIES F PRODUCT PERFORMANCE FEATURES:

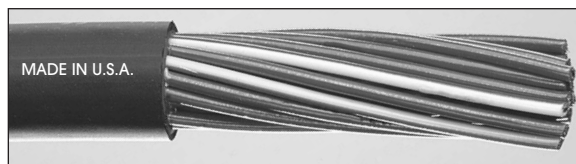
Alpha Wire **INDUSTRIAL SERIES - SERIES F** Cables are
Designed and Manufactured to Perform at:

- Over 20 Million Continuous Rolling Flex Cycles at a Minimum Bend Radius of 10X OD
- Tic-Toc/Twist Test Per MIL-C-13777G

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 (Stationary)
- -5°C to 90°C (Flexing)

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: Black

PRODUCT DESCRIPTION:

- Conductor: Class M Stranded Bare Copper
- Insulation: Red PVC/Nylon or Blue PVC/Nylon
- Jacket: Specially-Formulated Thermoplastic Elastomer

SPECIFICATIONS

- UL Standard 66, Type TFFN PVC/Nylon Conductors – Oil Resistance I & II
- UL MTW
- 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
- 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

CE
Certified
Canadian Standards Association

UL LISTED

RoHS
Compliant

FIT® TUBING RECOMMENDATION

FIT® 600 – Highly Flexible, Irradiated Elastomer (See Page 131 for Product Specifications)

FIT®-650 – Chemical and Temperature Resistant Irradiated Viton® (See Page 132 for Product Specifications)
Viton® is a registered trademark of Dupont Dow Elastomers

16 AWG (1,31mm²), 65/34 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 mm	Jacket Thickness Inches mm	Nominal Inches	Diameter mm
▲F16003RW	▲F16003LW	F16003KW	3	0.102 2,6	0.050 1,3	0.335	8,5
▲F16004RW	▲F16004LW	F16004KW	4	0.102 2,6	0.050 1,3	0.365	9,3
▲F16005RW	▲F16005LW	F16005KW	5	0.102 2,6	0.050 1,3	0.395	10,0
▲F16007RW	▲F16007LW	F16007KW	7	0.102 2,6	0.065 1,7	0.490	12,4
▲F16012RW	▲F16012LW	F16012KW	12	0.102 2,6	0.065 1,7	0.570	14,5
▲F16017RW	▲F16017LW	F16017KW	17	0.102 2,6	0.065 1,7	0.660	16,8
▲F16019RW	▲F16019LW	F16019KW	19	0.102 2,6	0.065 1,7	0.689	17,5
▲F16022RW	▲F16022LW	F16022KW	22	0.102 2,6	0.065 1,7	0.730	18,5
▲F16025RW	▲F16025LW	F16025KW	25	0.102 2,6	0.065 1,7	0.800	20,3
▲F16033RW	▲F16033LW	F16033KW	33	0.102 2,6	0.085 2,2	0.905	23,0
▲F16042RW	▲F16042LW	F16042KW	42	0.102 2,6	0.085 2,2	0.975	24,8
▲F16049RW	▲F16049LW	F16049KW	49	0.102 2,6	0.085 2,2	1.080	27,4
▲F16065RW	▲F16065LW	F16065KW	65	0.102 2,6	0.085 2,2	1.180	30,0

FOR COMPLETE SERIES F PRODUCT PERFORMANCE DATA, SEE PAGE 366.



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