

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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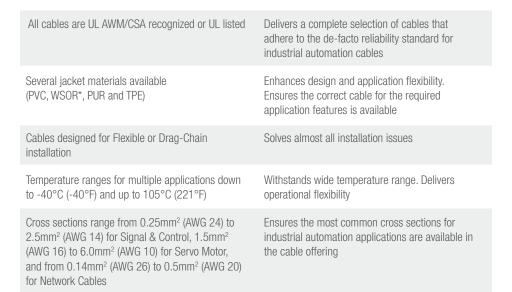
# Flamar Standard Cables for Industrial Automation

Flamar a molex company

Available in multiple packaging sizes with small minimum order quantities, Flamar provides a complete selection of cables for all industrial automation applications while utilizing in-house design and manufacturing to meet and exceed the most stringent quality requirements at a competitive cost

# @Flamer

#### **Features and Benefits**







Flamar Standard Cables (from top to bottom): Signal & Control, Servo Motor, Network



Flamar standard cables for industrial automation brochure English 987651-3992 Chinese 987651-4141

#### **Applications**

#### Industrial Automation —

#### Line and Machine Builders

Sensors: Brad® M8 and M12 Connectors Valves: mPm® DIN Valve Connectors Ethernet: Brad® M12 Connectors Servo Motors: Brad® M23 Connectors

Flame-retardant compliance with UL Vertical Flame

Test, UL VW-1, and CSA FT-1 up to CSA FT-4

Control Cabinets:

GWconnect® Heavy Duty Connectors
Auxiliary Power: Brad® Mini-Change

#### **Industrial Factory Automation**

Material Handling

Non Automotive/Commercial Vehicles



Ensures safety for out-of-the-cabinet use

Sensors, valves and control cabinets



Servo Motors



Smart I/O modules

# Flamar Standard Cables for Industrial Automation



### **Specifications**

#### SIGNAL AND CONTROL

Series	Environment	Installation	Halogen Free		ure Rating   Max)	Voltage	Bending Radius	Jacket Material	Shielded	Approval
<u>155210</u>	Standard	Flexible	Ne	+5°C		300V	> 15x0D	PVC	No	UL AWM 2464/CSA
<u>155211</u>									Yes	
<u>155220</u>	Course		No	0.590	0000	0001/		WSOR*	No	UL AWM 21215/CSA UL AWM 21223/CSA UL Listed PLTC
<u>155221</u>	Severe			-25°C	+80°C	600V	> 7.5xOD		Yes	
155230		0 .	Yes	-40°C		1000V		PUR	No	
155231	Harsh	Drag Chain							Yes	
155240	Severe		No		+105°C	300V	> 10x0D	TPE	No	
155241									Yes	

#### SERVO MOTOR

Series	Environment	Installation	Halogen Free	Temperature Rating (Min   Max)		Voltage	Bending Radius	Jacket Material	Shielded	Approval
<u>155311</u>	Standard	Flexible	No	+5°C	+80°C	1000V Power 600V Feedback	> 15x0D	PVC	Yes	UL AWM 2570/CSA
<u>155321</u>	Severe	Drog Chain		-25°C				WSOR*		UL AWM 21939/CSA (Power) UL AWM 21215/CSA (Feedback)
<u>155331</u>	Harsh	Drag Chain	Yes	-40°C			> 10x0D	PUR		UL AWM 21223/CSA

#### NETWORK

Series	Environment	Installation	Halogen Free	Temperature Rating (Min   Max)		Voltage	Bending Radius	Jacket Material	Shielded	Approval
<u>155411</u>	Standard	Flexible	No	+5°C	+60°C (CC-Link)	300V		PVC		UL AWM 2464/CSA
<u>155421</u>	Severe	Drog Chain	No	-10°C	+60°C (PROFIBUS) +70°C (PROFINET) +60°C (EtherNet/IP)	600V	> 15x0D	WSOR*	Yes	UL AWM 21215/CSA
<u>155431</u>	Harsh	Drag Chain	Yes	-20°C		300V		PUR		UL AWM 20233/CSA

<sup>\*</sup>Weld-Slag and Oil-Resistant

## **Packaging Options**



www.molex.com/link/flamar