



THE DATASHEET OF 1552200168

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

Features and Benefits

All cables are UL AWM/CSA recognized or UL listed

Delivers a complete selection of cables that adhere to the de-facto reliability standard for industrial automation cables

Several jacket materials available (PVC, WSOR*, PUR and TPE)

Enhances design and application flexibility. Ensures the correct cable for the required application features is available

Cables designed for Flexible or Drag-Chain installation

Solves almost all installation issues

Temperature ranges for multiple applications down to -40°C (-40°F) and up to 105°C (221°F)

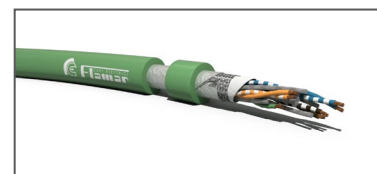
Withstands wide temperature range. Delivers operational flexibility

Cross sections range from 0.25mm² (AWG 24) to 2.5mm² (AWG 14) for Signal & Control, 1.5mm² (AWG 16) to 6.0mm² (AWG 10) for Servo Motor, and from 0.14mm² (AWG 26) to 0.5mm² (AWG 20) for Network Cables

Ensures the most common cross sections for industrial automation applications are available in the cable offering

Flame-retardant compliance with UL Vertical Flame Test, UL VW-1, and CSA FT-1 up to CSA FT-4

Ensures safety for out-of-the-cabinet use



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

Control Cabinets:

GWconnect[®] Heavy Duty Connectors

Auxiliary Power: Brad[®] Mini-Change

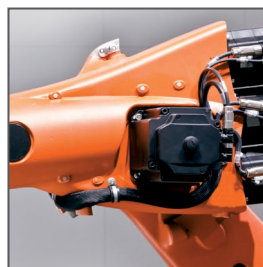
Industrial Factory Automation

Material Handling

Non Automotive/Commercial Vehicles



Sensors, valves and control cabinets



Servo Motors



Smart I/O modules

*Weld-Slag and Oil-Resistant

Flamar Standard Cables for Industrial Automation

Specifications

SIGNAL AND CONTROL

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

SERVO MOTOR

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

NETWORK

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

*Weld-Slag and Oil-Resistant

Packaging Options



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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 [Molex, LLC](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management