Expect High Performance

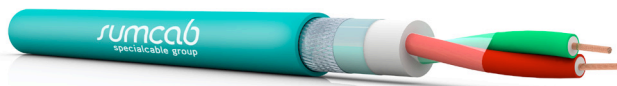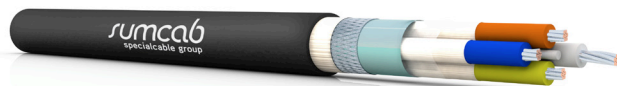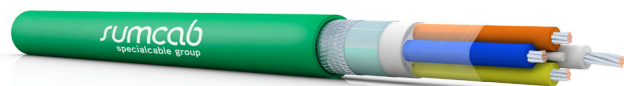# What is an industrial bus?

In IT, a bus is known as a communication system that transfers data between different devices. USB is a widely known example which stands for Universal Serial Bus. A large number of devices use this protocol to interact with a PC.

An industrial bus is a communication system that transfers data between components or devices at different levels in a manufacturing plant: the information level (Management level), the control level and the field level. There are several manufacturers and communication systems such as Profibus, Profinet and Ethernet.

For each type of communication, a suitable cable allows to correctly control the functions at field level. For example, for a controller to maintain fluid flow, a sensor monitors the amount of fluid and an actuator adjusts the opening and closing of the valve to reach the desired level. All this information is communicated between each function through these special bus cables.

Other common applications for bus communication systems are: PLC to controller, switches, sensors and actuators. For example, selector switches, pushbuttons, circuit breakers, motor starters, control delays, temperature sensors and pressure sensors. These areas of industrial automation are often found in production plants with aggressive environments and applications. Chemical agents, continuous movements, high temperature or industrial oils and greases are important factors when choosing the most suitable cable. In these applications and environments, a common cable will fail on the short term, causing unplanned stops and directly affecting the productivity of the installation.

SUMCAB SOLUTIONS

In order to guarantee a proper functioning of the system, Sumcab offers a wide range of BUS cables with special features and suitable for industrial environments, for example with high mechanical resistance, resistance to industrial oils and greases, resistance to bending and continued torsion or suitable for ATEX zones.

Sumcab has in stock **Ethernet/Profinet** cables in Cat. 5e and Cat.6 for fixed installation, flexible installation, for cable chain and robotic installation, as well as a wide variety of cables for **Profibus DP, PA, DeviceNET, ModBus systems and AS-I Bus,** among others.

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PROFINET

Reference:	Sumline 4.0 PNV-F5	Sumline 4.0 PNH-F5	Sumline 4.0 PNV-F6	Sumline 4.0 PNH-F6	Sumline 4.0 PNP-C5	Sumline 4.0 PNP-C6	Sumline 4.0 PNP-R5
Application:	Instalación fija	Instalación fija	Instalación fija	Instalación fija	Cable chain	Cable chain	Robotic
Details:	2x2xAWG22, Cat.5e	2x2xAWG22 Cat.5e, LSZH	2x2xAWG22, Cat. 6	2x2xAWG22, Cat.6, LSZH	2x2xAWG22, Cat.5e	2x2xAWG22, Cat.6	2x2xAWG22, Cat.5e

ETHERNET

Reference:	Sumline 4.0 EIV-F5	Sumline 4.0 EIH-F5	Sumline 4.0 EIV-F6	Sumline 4.0 EIH-F6	Sumline 4.0 EIP-C5	Sumline 4.0 EIP-C6	Sumline 4.0 EIP-R5
Application:	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Cable chain	Cable chain	Robotic
Details:	4x2xAWG24, Cat.5e	4x2xAWG24 Cat.5e, LSZH	4x2xAWG24, Cat. 6	4x2xAWG24, Cat.6, LSZH	4x2xAWG26, Cat.5e	4x2xAWG26, Cat.6	4x2xAWG26, Cat.5e

PROFIBUS DP

Reference:	Sumline Profibus DP Eco	Sumline Profibus DP Eco LSZH	Sumline Profibus DP FC	Sumline Profibus DP FC LSZH	Sumflex CP Profibus DP	Sumflex Mechatronic Profibus DP	
Application:	Fixed installation	Fixed installation	Fixed installation	Fixed installation	Cable chain	Robotic	
Details:	1x2xAWG22	1x2xAWG22 LSZH	1x2xAWG22, fast connect	1x2xAWG22, LSZH fast connect	1x2xAWG22	1x2xAWG22	

OTHER PROTOCOLS

Reference:	Bus Interface RS 485	Modbus	Interbus IBS	DeviceNET	AS-I	EIB Bus	Actuator sensor
Application:	Fixed installation or mobile installation	Fixed installation or mobile installation	Fixed installation or mobile installation	Fixed installation or mobile installation	Fixed installation or mobile installation	Fixed installation or mobile installation	Fixed installation or mobile installation