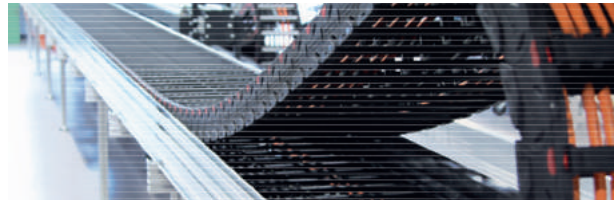


## Industry 4.0

One of the most important challenges for companies nowadays is greater orientation towards the demands of their customers, higher productive flexibility and reduced production costs. The response to these challenges is found in the fourth industrial revolution or Industry 4.0.



The “intelligent factories” are based on the computerisation of all levels of the chain of value. All of the production processes are computerised, monitored, connected and interact together from the cloud following the concept of the Internet of Things (IOT).



This generates an enormous volume of data and the need to avail of reliable measurement systems in the case of any type of movement/change.

To respond to these needs, SUMCAB offers a wide range of Ethernet cables in Cat.5e and Cat.6 for cable chains and robotics.

**Sumcab - The most reliable solution for applications with a high volume of data transmission.**

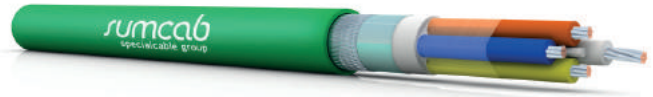
Industry 4.0



Communication

## Profinet Sumline 4.0 PNP-C5

**Application:** Profinet cable EN 50173-3 & ISO/IEC 24702, extra flexible, for use in cable chains with movement speed of up to 180m/min. Halogen free and flame retardant cable.



Design

Conductor	Fine threads of copper
Insulation	Polyethylene
Identification	Blue-white & orange-yellow
Cabling	Quad
Shielding	Tape of Alu/Pet, with shielding of tinned copper braid, coverage of 85%
Exterior sheath	Polyurethane, green colour

Technical Details

Impedance (f=100MHz)	100 Ohm +/-5 Ohm
Bandwidth	1-100 MHz
Minimum bend radius	8 x diámetro exterior
Service temperature	-20°C a +80°C
Max. movement speed	180m/min.
Max. acceleration/ deceleration	5m/s
Max. horizontal movement	25m
Number of cycles:	Min. 1 mio. / Max. 10 mio. Depending on the exact application. For more information, contact your Sumcab technical sales manager.

General features

IEC 60332-1-2	Flame retardant
IEC 60811-2-1	Resistance to oils and industrial greases
IEC 60754-1	Halogen free

Application markets

Tool Machine
Automation
Packaging
Food & Beverage
Chemical Industry
Pharmaceutical Industry
Glass and Ceramics Industry
Electronics Industry
Aeronautical Industry
Transport & Logistics

Nº. of pairs x AWG	Outer diameter in mm	Weight kg/km
2 x 2 x 22	6,8	60

Sumcab reserves the right to modify these specifications with no prior notice.

Communication

## Ethernet Industrial Sumline 4.0 EIP-C5

**Application:** Ethernet Industrial Cable, Cat.5e, extra flexible, for use in cable chains with movement speed of up to 180m/min. Halogen free and flame retardant cable.



Design

Conductor	Fine threads of copper (AWG26/19)
Insulation	Thermoplastic polymer
Identification	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Cabling	4 pairs in the set with fillings
Shielding	Shielding of tinned copper braid, coverage of 90%
Exterior sheath	Polyurethane, green colour

Technical Details

Impedance (f=100MHz)	100 Ohm +/-5 Ohm
Bandwidth	1-100 MHz
Minimum bend radius	8 x outer diameter
Service temperature	-20°C to +80°C
Max. movement speed	180m/min.
Max. acceleration/ deceleration	5 m/s
Max. horizontal movement	25 m
Number of cycles:	Min. 1 mio. / Max. 10 mio. Depending on the exact application. For more information, contact your Sumcab technical sales manager.

General features

IEC 60332-1-2	Flame retardant
IEC 60811-2-1	Resistance to oils and industrial greases
IEC 60754-1	Halogen free

Application markets

Tool Machine
Automation
Packaging
Food & Beverage
Chemical Industry
Pharmaceutical Industry
Glass and Ceramics Industry
Electronics Industry
Aeronautical Industry
Transport & Logistics

N°. of pairs x AWG	Outer diameter in mm	Weight kg/km
4 x 2 x 26	6,9	54

Sumcab reserves the right to modify these specifications with no prior notice.



Communication

## Ethernet Industrial Sumline 4.0 EIP-C6-ES

**Application:** Easy to strip Ethernet Industrial Cable, Cat.6A, extra flexible, for use in cable chains with movement speed of up to 180m/min. Halogen free and flame retardant cable.



Design

Conductor	Fine threads of copper (AWG26/19)
Insulation	Thermoplastic polymer
Identification	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Cabling	4 pairs with central star
Seating	Seating for easy stripping
Shielding	Tape of Alu/Pet, with shielding of tinned copper braid, coverage of 90%
Exterior sheath	Polyurethane, green colour

Technical Details

Impedance (f=100MHz)	100 Ohm +/-5 Ohm
Bandwidth	1-250 MHz
Minimum bend radius	12.5 x outer diameter
Service temperature	-20°C to +80°C
Max. movement speed	180m/min.
Max. acceleration/ deceleration	4 m/s
Max. horizontal movement	10 m
Number of cycles:	Min. 1 mio. / Max. 10 mio. Depending on the exact application. For more information, contact your Sumcab technical sales manager.

General features

IEC 60332-1-2	Flame retardant
IEC 60811-2-1	Resistance to oils and industrial greases
IEC 60754-1	Halogen free

Application markets

Tool Machine
Automation
Packaging
Food & Beverage
Chemical Industry
Pharmaceutical Industry
Glass and Ceramics Industry
Electronics Industry
Aeronautical Industry
Transport & Logistics

N°. of pairs x AWG	Outer diameter in mm	Weight kg/km
4 x 2 x 26	7,2	65

Sumcab reserves the right to modify these specifications with no prior notice.



## Communication

# Profibus Sumline 4.0 PBP-C

**Application:** Profibus DP Cable, extra flexible, for use in cable chains with movement speed of up to 180m/min. Halogen free and flame retardant cable.



### Design

Conductor	Fine threads of copper (AWG22/19)
Insulation	FPE
Identification	Red & green
Cabling	1 pair
Shielding	Tape of Alu/Pet, with shielding of tinned copper braid, coverage of 65%
Exterior sheath	Polyurethane, turquoise colour

### Technical Details

Characteristic impedance	150 Ohm +/-15 Ohm
Capacitance to 1 KHz	28 nF/km
Minimum bend radius	8 x outer diameter
Service temperature	-20°C to +80°C
Max. movement speed	180m/min.
Max. acceleration/ deceleration	4 m/s
Max. horizontal movement	25 m
Number of cycles:	Min. 1 mio. / Max. 10 mio. Depending on the exact application. For more information, contact your Sumcab technical sales manager.

### General features

IEC 60332-1-2	Flame retardant
IEC 60811-2-1	Resistance to oils and industrial greases
IEC 60754-1	Halogen free

### Application markets

Tool Machine
Automation
Packaging
Food & Beverage
Chemical Industry
Pharmaceutical Industry
Glass and Ceramics Industry
Electronics Industry
Aeronautical Industry
Transport & Logistics

N°. of pairs x AWG	Outer diameter in mm	Weight kg/km
1 x 2 x 22	8,8	62

Sumcab reserves the right to modify these specifications with no prior notice.