

# Communication modules

## RFID standard cables

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#### Overview



RFID standard cable that is used with SIMATIC RFID systems preassembled in various lengths.

#### Benefits



Due to the cETLus certification with CMG test and marking, the cable can also be installed in fire protection critical building parts (e.g. vertical installation in a cable duct).

The SIMATIC RFID standard cable can also be used in dynamic applications such as tow chains with a minimum bending radius of 75 mm.

#### Application

In addition to the normal areas of application in industry, the cable can also be laid:

- in areas subject to high heat
- for highly flexible applications; e.g. in tow chains
- in oily industrial environments
- in outdoor applications under solar radiation (UV radiation).

#### Technical specifications

Product type designation	SIMATIC RFID standard cable
Product description	Highly flexible communication line (6-wire)
Also suitable for use	In continuous motion applications, such as with drag chains
Cable designation	L-YC11Y 6x1x0.25 6x24AWG CMG
<b>Electrical data</b>	
Loop resistance per length/maximum	160 Ω/km
<b>Mechanical data</b>	
Number of electrical wires	6
Type of screen	Tin-plated braided shield made of copper wires with 0.13 mm diameter (36 AWG)
Wire diameter of the AWG24 wire	0.70 mm
Outer diameter	
• of the inner conductor	0.70 mm
• of the wire insulation	1.2 mm
• of the cable sheath	5.4 mm
Symmetrical tolerance of the outer diameter/of the cable sheath	0.2 mm
Material	
• of the wire insulation	PVC
• of the cable sheath	PUR

Product type designation	SIMATIC RFID standard cable
Color	
• of the data wire insulation	White / yellow / gray / pink / brown / green
• of the cable sheath	Black
Bending radius	
• for one-off bending / minimum permissible	21.6 mm
• for repeated bending / minimum permissible	43 mm
• with continuous bending	75 mm
Number of bending cycles	3 million
Number of bending cycles / note	Suitable as trailing cable for 3 million bending cycles with a bending radius of 75 mm
Tensile load / maximum	200 N
<b>Permitted ambient conditions</b>	
Ambient temperature	
• during operation	-30 °C ... 80 °C
• during storage	-30 °C ... 80 °C
• during transport	-30 °C ... 80 °C
• during installation	-30 °C ... 80 °C
Ambient temperature / comment	Electrical properties measured at 20 °C
Behavior in fire	Flame-retardant acc. to IEC 60332-1-2
Resistance	
• to mineral oil	Resistant
• to grease	Resistant
• Radiological resistance / to UV radiation	Resistant
Product properties, functions, components / general	
• Halogen-free	No
• Silicon-free	Yes
Standards, specifications, approvals	
• UL listing / at 300 V rating	Yes: CMG
• UL listing / at 600 V rating	No

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#### Selection and ordering data

	Order No.
<b>Connecting cable communication module - reader, without connectors</b>	
50 m	<b>6GT2 090-4AN50</b>
120 m	<b>6GT2 090-4AT12</b>
800 m	<b>6GT2 090-4AT80</b>
<b>MOBY U, connecting cable 470/475 communication module - reader</b>	
2 m	<b>6GT2 091-4EH20</b>
5 m	<b>6GT2 091-4EH50</b>
10 m	<b>6GT2 091-4EN10</b>
20 m	<b>6GT2 091-4EN20</b>
50 m	<b>6GT2 091-4EN50</b>
With straight reader connector, 2 m	<b>6GT2 091-6EH20</b>
With straight reader connector, 5 m	<b>6GT2 091-6EH50</b>
With straight reader connector 10 m	<b>6GT2 091-6EN10</b>
With straight reader connector, 50 m	<b>6GT2 091-6EN50</b>
<b>MOBY U, connecting cable ASM 456, RF160C, RF170C, RF180C, RF182C - reader</b>	
2 m	<b>6GT2 091-4FH20</b>
5 m	<b>6GT2 091-4FH50</b>
<b>MOBY D, connecting cable ASM 475 - SLG D1xS</b>	
5 m	<b>6GT2 491-4EH50</b>
20 m	<b>6GT2 491-4EN20</b>
50 m	<b>6GT2 491-4EN50</b>
<b>MOBY D, connecting cable PC (RS232) - SLG D1x</b>	
5 m	<b>6GT2 691-4BH50</b>
20 m	<b>6GT2 691-4BN20</b>
<b>MOBY D, connecting cable ASM 456, RF160C, RF170C, RF180C, RF182C - SLG D1xS</b>	
2 m	<b>6GT2 691-4FH20</b>
<b>RF200 / RF300 / RF600, connecting cable ASM 475 - reader</b>	
2 m	<b>6GT2 891-4EH20</b>
5 m	<b>6GT2 891-4EH50</b>
<b>RF200/300/600, M12 connecting cable ASM 456, RF160C, RF170C, RF180C, RF182C - reader; angled reader connector</b>	
2 m	<b>6GT2 891-4JH20</b>

	Order No.
<b>RF200/300/600, connecting cable ASM 456, RF160C, RF170C, RF180C, RF182C - reader, code reading systems</b>	
Can also be used as RF200/300/600, MOBY D/U extension cable to ASM 456, RF160C, RF170C, RF180C, RF182C, straight connector.	
2 m	<b>6GT2 891-4FH20</b>
5 m	<b>6GT2 891-4FH50</b>
10 m	<b>6GT2 891-4FN10</b>
20 m	<b>6GT2 891-4FN20</b>
50 m	<b>6GT2 891-4FN50</b>
<b>RF300, connecting cable PC (RS232) - RF380R</b>	
5 m	<b>6GT2 891-4KH50</b>
<b>MOBY U, connecting cable PC (RS232) - SLG U92 and power supply unit</b>	
5 m	<b>6GT2 591-5CH50</b>
20 m	<b>6GT2 591-5CN20</b>
<b>MOBY U, connecting cable PC (RS232) - service interface SLG U92</b>	
5 m	<b>6GT2 591-5AH50</b>