

# Connection Cable

M12 × 1; 8-pin, X-coding - M12 × 1; 4-pin, D-coding

## ZC1V019

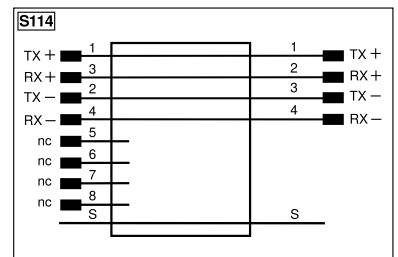
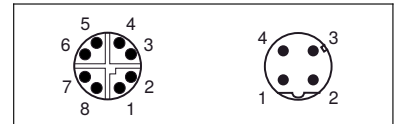
Part Number



### Technical Data

Electrical Data	
Supply Voltage	≤ 50 V AC/DC
Baud Rate	100 Mbit/s
Mechanical Data	
Connection 1	Plug, angled
Connection mode 1	M12 × 1, 8-pin, X-cod.
Connection 2	Plug, straight
Connection mode 2	M12 × 1, 4-pin, D-cod.
Torque	M12: 0,6 Nm
Cable Length	3,5 m
Outer diameter (d)	6 mm
Wire cross-section	0,22 mm <sup>2</sup>
Degree of Protection	IP67
Temperature range (fixed installation)	-40...80 °C
Temperature range (moving application)	-30...70 °C
Jacket color	green
Cable Jacket Material	PUR
Material Wire Insulation	PE
Material Sleeve Nut	Zinc diecasting, nickel-plated
Category	CAT 5
Screened	yes
Halogen-free	yes
Drag Chain Suitable	yes
Bending radius (fixed installation)	5 × d
Bending radius (used in motion)	12 × d
Travel speed (with 5 m horizontal travel distance)	≤ 3,3 m/s
Acceleration	≤ 2 m/s <sup>2</sup>
Bending cycles	≤ 35000000
Packaging unit	1 Piece
Connection Diagram No.	<b>S114</b>
Connection Equipment No.	<b>50   51</b>

● Screened



\* ISO/ICE 11801 Class D

Legend					
+	Supply Voltage +	nc	Not connected	ENB <sub>RS422</sub>	Encoder B/B̄ (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B
A	Switching Output (NO)	W	Trigger Input	AMIN	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	O	Analog Output	ACK	Digital output OK
Ṽ	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	AMV	Valve Output	QLT	Brightness output
Z	Time Delay (activation)	a	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	⊕	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
IO-Link	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
Bi_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
EN <sub>RS422</sub>	Encoder 0-pulse 0/0̄ (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	EN <sub>RS422</sub>	Encoder A/Ā (TTL)		