

I/O Connectors



C	B	O	12.	4	-2	-	C	B	12.	4	/	P
												Special Function and Cable Material Null: PVC P: PUR / PP Bending≥5 million WS: Shielded L: PNP LED LN: NPN LED EWSR: Welding spark resistance
												No. of Pin 3: 3-pin 4: 4-pin 5: 5-pin 8: 8-pin
												Size 8: M8*1 12: M12*1
												Shape Null: Straight B: Angled
												Product Category C-type Q-type
												Specification Null: Single pre-wired
												Cable length Standard: 2m
												No. of Pin 2: 2-pin(2.2, 2.21, 2.22 different pin sequence) 3: 3-pin 4: 4-pin 5: 5-pin 8: 8-pin
												Size 8: M8*1 12: M12*1
												Gender Null: Male O: Female
												Shape Null: Straight B: Angled
												Product Category C-type Q-type

Cordsets
Order Code

ECS - F E 2 C B . 12 . 4 - 2/2 / .

Special Function and Cable Material

Null: PVC
P: PUR / PP Bending≥5 million
WS: Shielded
L: PNP LED
LN: NPN LED
B24: 2-, 4-pin shorted

Connection Type (splitter)

2/2: 2m cable for each end
2-C12.4: Male straight M12 connector
with 2m cable
2-C8.4: Male straight M8 connector
with 2m cable
2-CB12.4: Male angled M12 connector
with 2m cable
2-CB8.4: Male angled M8 connector
with 2m cable

No. of Pin

2: 2-pin(2.2, 2.21, 2.22
different pin sequence)
3: 3-pin
4: 4-pin
5: 5-pin

Connection Type (adapter)

Null: Homerun cable
8: M8*1 12: M12*1

Gender

Null: Male O: Female

Shape

Null: Straight B: Angled

Specification

Null: Homerun cable C: Pre-wired connector

Product Category

Null: Y adapter 2: Y splitter

Size

Null: M12 E: M8

Gender

Null: Male F: Female

Product Category

Y splitter/adapter

**Y Splitter/Adapter
Order Code**

Pre-Wired I/O Connectors

The pre-wired and plastic I/O connectors meet all requirements for safe, fast, and reliable field connections. Our standardized pre-wired connectors guarantee steady and shock prove IP67 connections. Depending on the selected cable type, they cover all applications in difficult environmental conditions like chemical influences, high or low air temperatures and significant mechanical stress. Cables are available with screening shields to ensure secure and interference-free signal transmissions.

- Shock resistant, reliable contact
- 360° shielded connectors
- Protection class IP67
- Current rating 2-4 A (depends on number of cores)
- Optional 2, 3, 4, 5, 8 core cables available
- Various cable types:
PVC, PUR, with or without shields, EWSR spark resistant STPE
very elastic and highly flexible
- Oil and chemical resistant, flame retardant, drag chain suitable
- Connectors M8x1, M12x1, 7/8", M23x1 threads
- Optional straight and angled connectors
- Built in LED indicators
- Optional A-coded, B-coded etc. interface
- Standard cable lengths 2m, all other lengths optionally available
- Special cables for special applications available on request



Y Splitter/Adapter

Y Splitters / Adapters include different types of products, such as module type and cable output type. They can be used as simple distribution boxes and extended port access to reduce installation costs and to save installation time. The material and structure of Y splitters / adapters are suitable for in dirty and damp industrial environments and their protection class is up to IP67.

Y splitters / adapters include M12 to 2×M12, M12 to 2×M8, M8 to 2×M12, M8 to 2×M8 and M8/M12 to homerun cables with customized length. They can be used for port extension, as distribution box kit, and distributed I/O connector extension.



I/O Cable

PVC Cable /

The cable with PVC jacket and a good mechanical performance (e.g. tensile strength, crack and abrasion resistance) is suitable for most applications in industrial installations. The cable is weatherproof and resistant to oil and chemical solutions. It is therefore a standard and economic solution for field installations to link I/O systems.

EWSR Cable /

The special jacket material can enhance mechanical properties (including tensile strength, crack resistance and wear resistance) and has a high temperature resistance. When choosing this type of cable, the detailed field environment and requirements must be clear.

PUR Cable /





















The PUR jacket cable with its superior mechanical performance (e.g. tensile strength, crack and abrasion resistance, weather and oil/chemical resistance) is suitable for applications in extreme environments. It is therefore an ideal solution for industrial installations to link I/O systems in a harsh environment.

Shielding Cable /

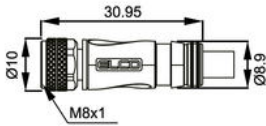
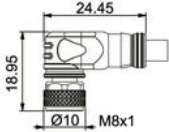
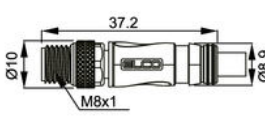
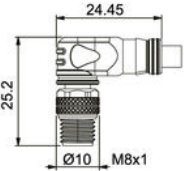
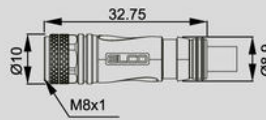
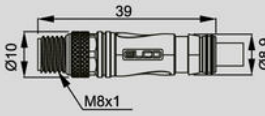
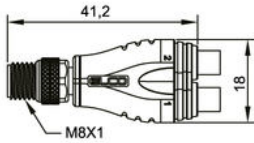
The tinned copper braid shielding layer provides a strong electromagnetic shield against interferences. Shielded cables therefore improve safe signal transmissions.

A wide range of special cables for special applications are available upon request. Please contact us to discuss your exact requirements.

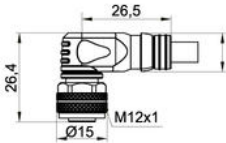
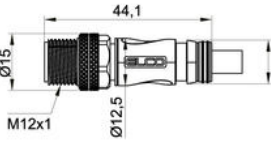
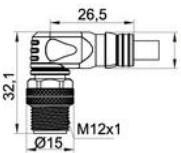
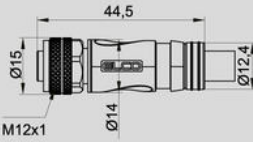
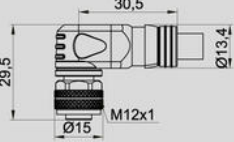
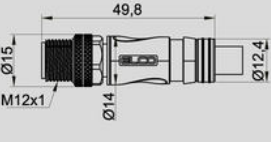
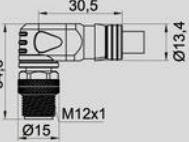
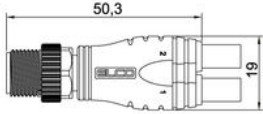
Pin Assignment

	2pin			3pin	4pin	5pin	8pin
	2.2	2.21	2.22				
M8 Female				4BK 3BU  1BN	4BK 2WH 3BU  1BN	5GY 3BU  1BN 4BK 2WH	
M8 Male				4BK 1BN  3BU	2WH 4BK 1BN  3BU	5GY 3BU  1BN 4BK 2WH	
M12 Female	1BN  4BU	2BU 1BN 	 3BN 4BU	2 1BN  3BU 4BK	2WH 1BN  3BU 4BK	2WH 1BN  3BU 5GY 4BK	
M12 Male	 1BN 4BU	2BU  1BN	3BN  4BU	2 3BU  1BN 4BK	2WH 3BU  1BN 4BK	2WH 5GY 3BU  1BN 4BK	

Dimensions M8

	Straight Female	Angled Female	Straight Male	Angled Male
Standard				
Special Application				
Y-Splitter				

Dimensions M12

	Straight Female	Angled Female	Straight Male	Angled Male
Standard				
Special Application				
Y-Splitter				


A large yellow industrial robotic arm is the central focus, positioned in a factory setting. The arm is yellow with black joints and cables, and it is mounted on a grey base. In the background, there are other similar robotic arms and the skeletal frames of cars on an assembly line. The scene is dimly lit, with the primary light source coming from the robotic arm's joints and the factory's overhead lights. The text is overlaid on the image in a white, sans-serif font.

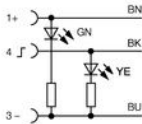
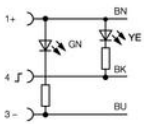
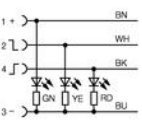
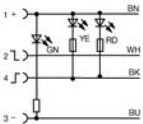
I/O

Connectors

M12

Single-ended I/O Cordsets- M12 (Straight-female)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Female DC 2-core	CO12.2-2	2	4A/250V	2m	0.34mm ²
		Female AC/DC 2-core	CO12.21-2	2	4A/250V	2m	0.34mm ²
		Female AC 2-core	CO12.22-2	2	4A/250V	2m	0.34mm ²
		Female 3-core NO	CO12.3-2	3	4A/250V	2m	0.34mm ²
		Female 3-core NO with LEDPNP	CO12.3-2/L	3	4A/30V	2m	0.34mm ²
		Female 3-core NO with LEDNPN	CO12.3-2/LN	3	4A/30V	2m	0.34mm ²
		Female 4-core NO/NC	CO12.4-2	4	4A/250V	2m	0.34mm ²
		Female 4-core NO/NC with LEDPNP	CO12.4-2/L	4	4A/30V	2m	0.34mm ²
		Female 4-core NO/NC with LEDNPN	CO12.4-2/LN	4	4A/30V	2m	0.34mm ²
		Female 5-core NO/NC	CO12.5-2	5	4A/60V	2m	0.34mm ²
		Female 8-core	CO12.8-2	8	2A/30V	2m	0.25mm ²
	PUR	Female DC 2-core	CO12.2-2/P	2	4A/250V	2m	0.34mm ²
		Female AC/DC 2-core	CO12.21-2/P	2	4A/250V	2m	0.34mm ²
		Female AC 2-core	CO12.22-2/P	2	4A/250V	2m	0.34mm ²
		Female 3-core NO	CO12.3-2/P	3	4A/250V	2m	0.34mm ²
		Female 3-core NO with LEDPNP	CO12.3-2/L/P	3	4A/30V	2m	0.34mm ²
		Female 3-core NO with LEDNPN	CO12.3-2/LN/P	3	4A/30V	2m	0.34mm ²
		Female 4-core NO/NC	CO12.4-2/P	4	4A/250V	2m	0.34mm ²
		Female 4-core NO/NC with LEDPNP	CO12.4-2/L/P	4	4A/30V	2m	0.34mm ²
		Female 4-core NO/NC with LEDNPN	CO12.4-2/LN/P	4	4A/30V	2m	0.34mm ²
		Female 5-core NO/NC	CO12.5-2/P	5	4A/60V	2m	0.34mm ²
		Female 8-core	CO12.8-2/P	8	2A/30V	2m	0.25mm ²


Product with LED	PNP 3-core		NPN 3-core		PNP 4-core		NPN 4-core	
								

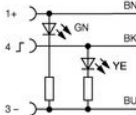
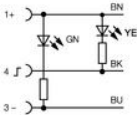
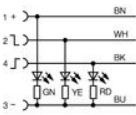
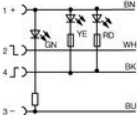
Single-ended I/O Cordsets- M12 (Straight-male)

Type Code						
Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
PVC	Male DC 2-core	C12.2-2	2	4A/250V	2m	0.34mm ²
	Male AC/DC 2-core	C12.21-2	2	4A/250V	2m	0.34mm ²
	Male AC 2-core	C12.22-2	2	4A/250V	2m	0.34mm ²
	Male 3-core NO	C12.3-2	3	4A/250V	2m	0.34mm ²
	Male 4-core NO/NC	C12.4-2	4	4A/250V	2m	0.34mm ²
	Male 5-core NO/NC	C12.5-2	5	4A/60V	2m	0.34mm ²
	Male 8-core	C12.8-2	8	2A/30V	2m	0.25mm ²
PUR	Male DC 2-core	C12.2-2/P	2	4A/250V	2m	0.34mm ²
	Male AC/DC 2-core	C12.21-2/P	2	4A/250V	2m	0.34mm ²
	Male AC 2-core	C12.22-2/P	2	4A/250V	2m	0.34mm ²
	Male 3-core NO	C12.3-2/P	3	4A/250V	2m	0.34mm ²
	Male 4-core NO/NC	C12.4-2/P	4	4A/250V	2m	0.34mm ²
	Male 5-core NO/NC	C12.5-2/P	5	4A/60V	2m	0.34mm ²
	Male 8-core	C12.8-2/P	8	2A/30V	2m	0.25mm ²




Single-ended I/O Cordsets-M12 (Angled-female)


Type Code						
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length
	PVC	Female DC 2-core	CBO12.2-2	2	4A/250V	2m
		Female AC/DC 2-core	CBO12.21-2	2	4A/250V	2m
		Female AC 2-core	CBO12.22-2	2	4A/250V	2m
		Female 3-core NO	CBO12.3-2	3	4A/250V	2m
		Female 3-core NO with LEDPNP	CBO12.3-2/L	3	4A/30V	2m
		Female 3-core NO with LEDNPN	CBO12.3-2/LN	3	4A/30V	2m
		Female 4-core NO/NC	CBO12.4-2	4	4A/250V	2m
		Female 4-core NO/NC with LEDPNP	CBO12.4-2/L	4	4A/30V	2m
		Female 4-core NO/NC with LEDNPN	CBO12.4-2/LN	4	4A/30V	2m
		Female 5-core NO/NC	CBO12.5-2	5	4A/60V	2m
		Female 8-core	CBO12.8-2	8	2A/30V	2m
		Female 8-core	CBO12.8-2	8	2A/30V	2m
	PUR	Female DC 2-core	CBO12.2-2/P	2	4A/250V	2m
		Female AC/DC 2-core	CBO12.21-2/P	2	4A/250V	2m
		Female AC 2-core	CBO12.22-2/P	2	4A/250V	2m
		Female 3-core NO	CBO12.3-2/P	3	4A/250V	2m
		Female 3-core NO with LEDPNP	CBO12.3-2/L/P	3	4A/30V	2m
		Female 3-core NO with LEDNPN	CBO12.3-2/LN/P	3	4A/30V	2m
		Female 4-core NO/NC	CBO12.4-2/P	4	4A/250V	2m
		Female 4-core NO/NC with LEDPNP	CBO12.4-2/L/P	4	4A/30V	2m
		Female 4-core NO/NC with LEDNPN	CBO12.4-2/LN/P	4	4A/30V	2m
		Female 5-core NO/NC	CBO12.5-2/P	5	4A/60V	2m
		Female 8-core	CBO12.8-2/P	8	2A/30V	2m
		Female 8-core	CBO12.8-2/P	8	2A/30V	2m

Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				


Single-ended I/O Cordsets-M12 (Angled-male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Male DC 2-core	CB12.2-2	2	4A/250V	2m	0.34mm ²
		Male AC/DC 2-core	CB12.21-2	2	4A/250V	2m	0.34mm ²
		Male AC 2-core	CB12.22-2	2	4A/250V	2m	0.34mm ²
		Male 3-core NO	CB12.3-2	3	4A/250V	2m	0.34mm ²
		Male 4-core NO/NC	CB12.4-2	4	4A/250V	2m	0.34mm ²
		Male 5-core NO/NC	CB12.5-2	5	4A/60V	2m	0.34mm ²
		Male 8-core	CB12.8-2	8	2A/30V	2m	0.25mm ²
	PUR	Male DC 2-core	CB12.2-2/P	2	4A/250V	2m	0.34mm ²
		Male AC/DC 2-core	CB12.21-2/P	2	4A/250V	2m	0.34mm ²
		Male AC 2-core	CB12.22-2/P	2	4A/250V	2m	0.34mm ²
		Male 3-core NO	CB12.3-2/P	3	4A/250V	2m	0.34mm ²
		Male 4-core NO/NC	CB12.4-2/P	4	4A/250V	2m	0.34mm ²
		Male 5-core NO/NC	CB12.5-2/P	5	4A/60V	2m	0.34mm ²
		Male 8-core	CB12.8-2/P	8	2A/30V	2m	0.25mm ²


Single-ended I/O Cordsets-M12 (Straight-female)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	Welding spark resistance	Female 3-core	CO12.3-2/EWSR	3	4A/250V	2m	0.34mm ²
		Female 4-core	CO12.4-2/EWSR	4	4A/250V	2m	0.34mm ²
		Female 5-core	CO12.5-2/EWSR	5	4A/60V	2m	0.34mm ²
	PVC Shielded	Female 3-core	CO12.3-2/WS	3	4A/250V	2m	0.34mm ²
		Female 4-core	CO12.4-2/WS	4	4A/250V	2m	0.34mm ²
		Female 5-core	CO12.5-2/WS	5	4A/60V	2m	0.34mm ²
		Female 8-core	CO12.8-2/WS	8	2A/30V	2m	0.25mm ²
	PUR Shielded	Female 3-core	CO12.3-2/WS/P	3	4A/250V	2m	0.34mm ²
		Female 4-core	CO12.4-2/WS/P	4	4A/250V	2m	0.34mm ²
		Female 5-core	CO12.5-2/WS/P	5	4A/60V	2m	0.34mm ²
		Female 8-core	CO12.8-2/WS/P	8	2A/30V	2m	0.25mm ²
		Female 12-core	CO12.12-2/WS/P	12	1.5A/30V	2m	0.25mm ²


Single-ended I/O Cordsets-M12 (Straight-male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	Welding spark resistance	Male 3-core	C12.3-2/EWSR	3	4A/250V	2m	0.34mm ²
		Male 4-core	C12.4-2/EWSR	4	4A/250V	2m	0.34mm ²
		Male 5-core	C12.5-2/EWSR	5	4A/60V	2m	0.34mm ²
	PVC Shielded	Male 3-core	C12.3-2/WS	3	4A/250V	2m	0.34mm ²
		Male 4-core	C12.4-2/WS	4	4A/250V	2m	0.34mm ²
		Male 5-core	C12.5-2/WS	5	4A/60V	2m	0.34mm ²
		Male 8-core	C12.8-2/WS	8	2A/30V	2m	0.25mm ²
	PUR Shielded	Male 3-core	C12.3-2/WS/P	3	4A/250V	2m	0.34mm ²
		Male 4-core	C12.4-2/WS/P	4	4A/250V	2m	0.34mm ²
		Male 5-core	C12.5-2/WS/P	5	4A/60V	2m	0.34mm ²
		Male 8-core	C12.8-2/WS/P	8	2A/30V	2m	0.25mm ²


Single-ended I/O Cordsets-M12 (Angled-female)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	Welding spark resistance	Female 3-core	CBO12.3-2/EWSR	3	4A/250V	2m	0.34mm ²
		Female 4-core	CBO12.4-2/EWSR	4	4A/250V	2m	0.34mm ²
		Female 5-core	CBO12.5-2/EWSR	5	4A/60V	2m	0.34mm ²
	PVC Shielded	Female 3-core	CBO12.3-2/WS	3	4A/250V	2m	0.34mm ²
		Female 4-core	CBO12.4-2/WS	4	4A/250V	2m	0.34mm ²
		Female 5-core	CBO12.5-2/WS	5	4A/60V	2m	0.34mm ²
		Female 8-core	CBO12.8-2/WS	8	2A/30V	2m	0.25mm ²
	PUR Shielded	Female 3-core	CBO12.3-2/WS/P	3	4A/250V	2m	0.34mm ²
		Female 4-core	CBO12.4-2/WS/P	4	4A/250V	2m	0.34mm ²
		Female 5-core	CBO12.5-2/WS/P	5	4A/60V	2m	0.34mm ²
		Female 8-core	CBO12.8-2/WS/P	8	2A/30V	2m	0.25mm ²



Single-ended I/O Cordsets-M12 (Angled-male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	Welding spark resistance	Male 3-core	CB12.3-2/EWSR	3	4A/250V	2m	0.34mm ²
		Male 4-core	CB12.4-2/EWSR	4	4A/250V	2m	0.34mm ²
		Male 5-core	CB12.5-2/EWSR	5	4A/60V	2m	0.34mm ²
	PVC Shielded	Male 3-core	CB12.3-2/WS	3	4A/250V	2m	0.34mm ²
		Male 4-core	CB12.4-2/WS	4	4A/250V	2m	0.34mm ²
		Male 5-core	CB12.5-2/WS	5	4A/60V	2m	0.34mm ²
		Male 8-core	CB12.8-2/WS	8	2A/30V	2m	0.25mm ²
	PUR Shielded	Male 3-core	CB12.3-2/WS/P	3	4A/250V	2m	0.34mm ²
		Male 4-core	CB12.4-2/WS/P	4	4A/250V	2m	0.34mm ²
		Male 5-core	CB12.5-2/WS/P	5	4A/60V	2m	0.34mm ²
		Male 8-core	CB12.8-2/WS/P	8	2A/30V	2m	0.25mm ²



Double-ended I/O Cordsets-M12 (female) to M12 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight	CO12.3-2-C12.3	3	4A/250V	2m	0.34mm²
		3-core straight to angled	CO12.3-2-CB12.3	3	4A/250V	2m	0.34mm²
		4-core straight to straight	CO12.4-2-C12.4	4	4A/250V	2m	0.34mm²
		4-core straight to angled	CO12.4-2-CB12.4	4	4A/250V	2m	0.34mm²
		5-core straight to straight	CO12.5-2-C12.5	5	4A/60V	2m	0.34mm²
		5-core straight to angled	CO12.5-2-CB12.5	5	4A/60V	2m	0.34mm²
	PUR	3-core straight to straight	CO12.3-2-C12.3/P	3	4A/250V	2m	0.34mm²
		3-core straight to angled	CO12.3-2-CB12.3/P	3	4A/250V	2m	0.34mm²
		4-core straight to straight	CO12.4-2-C12.4/P	4	4A/250V	2m	0.34mm²
		4-core straight to angled	CO12.4-2-CB12.4/P	4	4A/250V	2m	0.34mm²
		5-core straight to straight	CO12.5-2-C12.5/P	5	4A/60V	2m	0.34mm²
		5-core straight to angled	CO12.5-2-CB12.5/P	5	4A/60V	2m	0.34mm²



Double-ended I/O Cordsets-M12 (female) to M12 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight	CBO12.3-2-C12.3	3	4A/250V	2m	0.34mm ²
		3-core angled to angled	CBO12.3-2-CB12.3	3	4A/250V	2m	0.34mm ²
		4-core angled to straight	CBO12.4-2-C12.4	4	4A/250V	2m	0.34mm ²
		4-core angled to angled	CBO12.4-2-CB12.4	4	4A/250V	2m	0.34mm ²
		5-core angled to straight	CBO12.5-2-C12.5	5	4A/60V	2m	0.34mm ²
		5-core angled to angled	CBO12.5-2-CB12.5	5	4A/60V	2m	0.34mm ²
	PUR	3-core angled to straight	CBO12.3-2-C12.3/P	3	4A/250V	2m	0.34mm ²
		3-core angled to angled	CBO12.3-2-CB12.3/P	3	4A/250V	2m	0.34mm ²
		4-core angled to straight	CBO12.4-2-C12.4/P	4	4A/250V	2m	0.34mm ²
		4-core angled to angled	CBO12.4-2-CB12.4/P	4	4A/250V	2m	0.34mm ²
		5-core angled to straight	CBO12.5-2-C12.5/P	5	4A/60V	2m	0.34mm ²
		5-core angled to angled	CBO12.5-2-CB12.5/P	5	4A/60V	2m	0.34mm ²


Double-ended I/O Cordsets-M12 (female) to M8 (male)

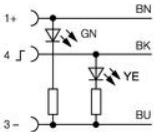
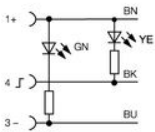
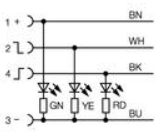
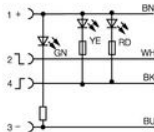
Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight	CO12.3-2-C8.3	3	4A/60V	2m	0.25mm²
		3-core straight to angled	CO12.3-2-CB8.3	3	4A/60V	2m	0.25mm²
		4-core straight to straight	CO12.4-2-C8.4	4	4A/30V	2m	0.25mm²
		4-core straight to angled	CBO12.4-2-CB8.4	4	4A/30V	2m	0.25mm²
	PUR	3-core straight to straight	CO12.3-2-C8.3/P	3	4A/60V	2m	0.25mm²
		3-core straight to angled	CO12.3-2-CB8.3/P	3	4A/60V	2m	0.25mm²
		4-core straight to straight	CO12.4-2-C8.4/P	4	4A/30V	2m	0.25mm²
		4-core straight to angled	CO12.4-2-CB8.4/P	4	4A/30V	2m	0.25mm²

Double-ended I/O Cordsets-M12 (female) to M8 (male)


Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight	CBO12.3-2-C8.3	3	4A/60V	2m	0.25mm ²
		3-core angled to angled	CBO12.3-2-CB8.3	3	4A/60V	2m	0.25mm ²
		4-core angled to straight	CBO12.4-2-C8.4	4	4A/30V	2m	0.25mm ²
		4-core angled to angled	CBO12.4-2-CB8.4	4	4A/30V	2m	0.25mm ²
	PUR	3-core angled to straight	CBO12.3-2-C8.3/P	3	4A/60V	2m	0.25mm ²
		3-core angled to angled	CBO12.3-2-CB8.3/P	3	4A/60V	2m	0.25mm ²
		4-core angled to straight	CBO12.4-2-C8.4/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled	CBO12.4-2-CB8.4/P	4	4A/30V	2m	0.25mm ²

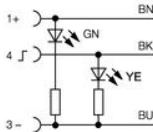
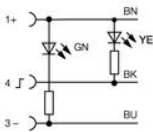
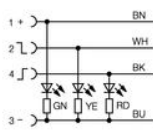
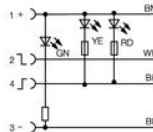
Double-ended I/O Cordsets-M12 (female) to M12 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight LEDPNP	CO12.3-2-C12.3/L	3	4A/30V	2m	0.34mm²
		3-core straight to angled LEDPNP	CO12.3-2-CB12.3/L	3	4A/30V	2m	0.34mm²
		4-core straight to straight LEDPNP	CO12.4-2-C12.4/L	4	4A/30V	2m	0.34mm²
		4-core straight to angled LEDPNP	CO12.4-2-CB12.4/L	4	4A/30V	2m	0.34mm²
		3-core straight to straight LEDNPN	CO12.3-2-C12.3/LN	3	4A/30V	2m	0.34mm²
		3-core straight to angled LEDNPN	CO12.3-2-CB12.3/LN	3	4A/30V	2m	0.34mm²
		4-core straight to straight LEDNPN	CO12.4-2-C12.4/LN	4	4A/30V	2m	0.34mm²
		4-core straight to angled LEDNPN	CO12.4-2-CB12.4/LN	4	4A/30V	2m	0.34mm²
	PUR	3-core straight to straight LEDPNP	CO12.3-2-C12.3/L/P	3	4A/30V	2m	0.34mm²
		3-core straight to angled LEDPNP	CO12.3-2-CB12.3/L/P	3	4A/30V	2m	0.34mm²
		4-core straight to straight LEDPNP	CO12.4-2-C12.4/L/P	4	4A/30V	2m	0.34mm²
		4-core straight to angled LEDPNP	CO12.4-2-CB12.4/L/P	4	4A/30V	2m	0.34mm²
		3-core straight to straight LEDNPN	CO12.3-2-C12.3/LN/P	3	4A/30V	2m	0.34mm²
		3-core straight to angled LEDNPN	CO12.3-2-CB12.3/LN/P	3	4A/30V	2m	0.34mm²
		4-core straight to straight LEDNPN	CO12.4-2-C12.4/LN/P	4	4A/30V	2m	0.34mm²
		4-core straight to angled LEDNPN	CO12.4-2-CB12.4/LN/P	4	4A/30V	2m	0.34mm²


Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

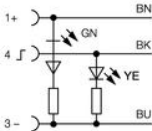
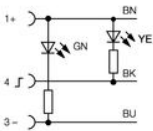
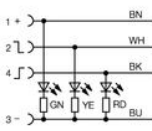
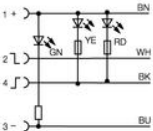
Double-ended I/O Cordsets-M12 (female) to M12 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight LEDPNP	CBO12.3-2-C12.3/L	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO12.3-2-CB12.3/L	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO12.4-2-C12.4/L	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO12.4-2-CB12.4/L	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO12.3-2-C12.3/LN	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO12.3-2-CB12.3/LN	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO12.4-2-C12.4/LN	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO12.4-2-CB12.4/LN	4	4A/30V	2m	0.25mm ²
	PUR	3-core angled to straight LEDPNP	CBO12.3-2-C12.3/L/P	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO12.3-2-CB12.3/L/P	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO12.4-2-C12.4/L/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO12.4-2-CB12.4/L/P	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO12.3-2-C12.3/LN/P	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO12.3-2-CB12.3/LN/P	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO12.4-2-C12.4/LN/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO12.4-2-CB12.4/LN/P	4	4A/30V	2m	0.25mm ²


Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

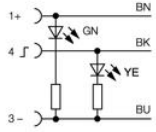
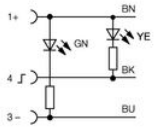
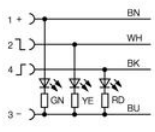
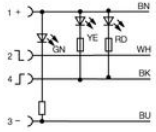
Double-ended I/O Cordsets-M12 (female) to M8 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight LEDPNP	CO12.3-2-C8.3/L	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDPNP	CO12.3-2-CB8.3/L	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDPNP	CO12.4-2-C8.4/L	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDPNP	CO12.4-2-CB8.4/L	4	4A/30V	2m	0.25mm²
		3-core straight to straight LEDNPN	CO12.3-2-C8.3/LN	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDNPN	CO12.3-2-CB8.3/LN	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDNPN	CO12.4-2-C8.4/LN	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDNPN	CO12.4-2-CB8.4/LN	4	4A/30V	2m	0.25mm²
	PUR	3-core straight to straight LEDPNP	CO12.3-2-C8.3/L/P	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDPNP	CO12.3-2-CB8.3/L/P	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDPNP	CO12.4-2-C8.4/L/P	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDPNP	CO12.4-2-CB8.4/L/P	4	4A/30V	2m	0.25mm²
		3-core straight to straight LEDNPN	CO12.3-2-C8.3/LN/P	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDNPN	CO12.3-2-CB8.3/LN/P	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDNPN	CO12.4-2-C8.4/LN/P	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDNPN	CO12.4-2-CB8.4/LN/P	4	4A/30V	2m	0.25mm²



Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

Double-ended I/O Cordsets-M12 (female) to M8 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight LEDPNP	CBO12.3-2-C8.3/L	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO12.3-2-CB8.3/L	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO12.4-2-C8.4/L	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO12.4-2-CB8.4/L	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO12.3-2-C8.3/LN	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO12.3-2-CB8.3/LN	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO12.4-2-C8.4/LN	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO12.4-2-CB8.4/LN	4	4A/30V	2m	0.25mm ²
	PUR	3-core angled to straight LEDPNP	CBO12.3-2-C8.3/L/P	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO12.3-2-CB8.3/L/P	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO12.4-2-C8.4/L/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO12.4-2-CB8.4/L/P	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO12.3-2-C8.3/LN/P	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO12.3-2-CB8.3/LN/P	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO12.4-2-C8.4/LN/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO12.4-2-CB8.4/LN/P	4	4A/30V	2m	0.25mm ²



Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

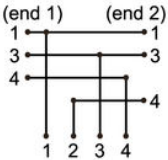
Y Splitter M12-male to M12-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight	ECS-2CO12.4-2/2	4-3/3	4A/250V	2m	0.34mm²
		Straight to 2 angled	ECS-2CBO12.4-2/2	4-3/3	4A/250V	2m	0.34mm²
		Straight to 2 straight	ECS-2CO12.4-2/2/B24	4-4/4	4A/60V	2m	0.34mm²
		Straight to 2 angled	ECS-2CBO12.4-2/2/B24	4-4/4	4A/60V	2m	0.34mm²
	PUR	Straight to 2 straight	ECS-2CO12.4-2/2/P	4-3/3	4A/250V	2m	0.34mm²
		Straight to 2 angled	ECS-2CBO12.4-2/2/P	4-3/3	4A/250V	2m	0.34mm²
		Straight to 2 straight	ECS-2CO12.4-2/2/B24/P	4-4/4	4A/60V	2m	0.34mm²
		Straight to 2 angled	ECS-2CBO12.4-2/2/B24/P	4-4/4	4A/60V	2m	0.34mm²

Wiring Diagram	Standard	B24
		

Y Splitter M12-male to M8-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight	ECS-2CO8.3-2/2	4-3/3	4A/60V	2m	0.25mm²
		Straight to 2 angled	ECS-2CBO8.3-2/2	4-3/3	4A/60V	2m	0.25mm²
	PUR	Straight to 2 straight	ECS-2CO8.3-2/2/P	4-3/3	4A/60V	2m	0.25mm²
		Straight to 2 angled	ECS-2CBO8.3-2/2/P	4-3/3	4A/60V	2m	0.25mm²



Wiring Diagram	Standard
	

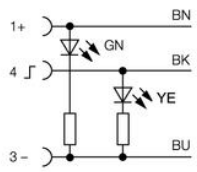
Y Splitter M12-male to M12-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight PNP	ECS-2CO12.4-2/2/L	4-3/3	4A/30V	2m	0.34mm ²
		Straight to 2 angled PNP	ECS-2CBO12.4-2/2/L	4-3/3	4A/30V	2m	0.34mm ²
		Straight to 2 straight NPN	ECS-2CO12.4-2/2/LN	4-3/3	4A/30V	2m	0.34mm ²
		Straight to 2 angled NPN	ECS-2CBO12.4-2/2/LN	4-3/3	4A/30V	2m	0.34mm ²
	PUR	Straight to 2 straight PNP	ECS-2CO12.4-2/2/L/P	4-3/3	4A/30V	2m	0.34mm ²
		Straight to 2 angled PNP	ECS-2CBO12.4-2/2/L/P	4-3/3	4A/30V	2m	0.34mm ²
		Straight to 2 straight NPN	ECS-2CO12.4-2/2/LN/P	4-3/3	4A/30V	2m	0.34mm ²
		Straight to 2 angled NPN	ECS-2CBO12.4-2/2/LN/P	4-3/3	4A/30V	2m	0.34mm ²


Product with LED	PNP 3-core	NPN 3-core
		

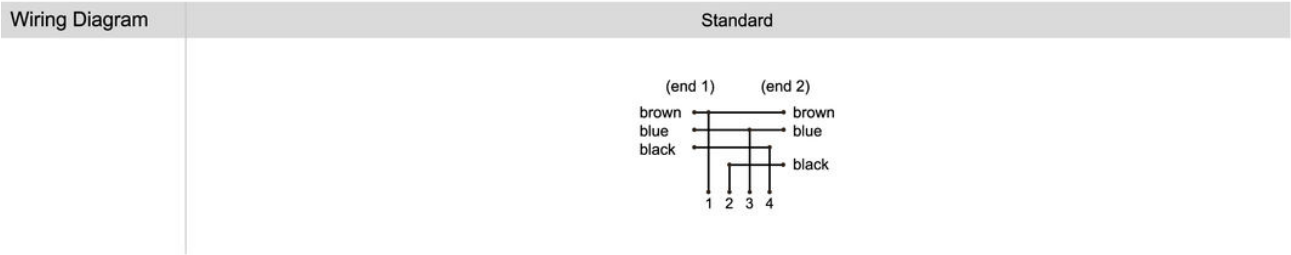
Y Splitter M12-male to M8-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight PNP	ECS-2CO8.3-2/2/L	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled PNP	ECS-2CBO8.3-2/2/L	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 straight NPN	ECS-2CO8.3-2/2/LN	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled NPN	ECS-2CBO8.3-2/2/LN	4-3/3	4A/30V	2m	0.25mm ²
	PUR	Straight to 2 straight PNP	ECS-2CO8.3-2/2/L/P	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled PNP	ECS-2CBO8.3-2/2/L/P	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 straight NPN	ECS-2CO8.3-2/2/LN/P	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled NPN	ECS-2CBO8.3-2/2/LN/P	4-3/3	4A/30V	2m	0.25mm ²


Product with LED	PNP 3-core	NPN 3-core
	 <p>Diagram showing PNP 3-core wiring. The 1+ terminal is connected to BN (Brown). The 4 terminal is connected to GN (Green) and BK (Black). The 3- terminal is connected to BU (Blue). The diagram also shows a yellow wire (YE) connected to the 4 terminal.</p>	 <p>Diagram showing NPN 3-core wiring. The 1+ terminal is connected to BN (Brown). The 4 terminal is connected to GN (Green) and BK (Black). The 3- terminal is connected to BU (Blue). The diagram also shows a yellow wire (YE) connected to the 4 terminal.</p>

Y Splitter M12(M) to Homerun Cable

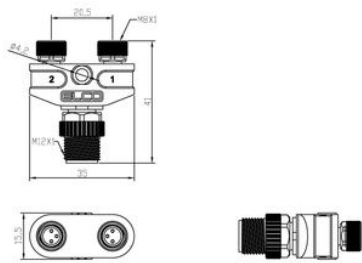
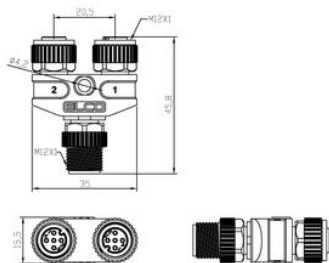
Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Y Splitter M12(M) to Homerun Cable	ECS-2.3-2/2	4-3/3	4A/250V	2m	0.34mm²
	PUR	Y Splitter M12(M) to Homerun Cable	ECS-2.3-2/2/P	4-3/3	4A/250V	2m	0.34mm²



Y Adapter

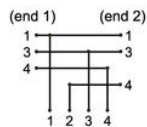
Type Code						
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length
	Standard	Universal Y adapter	ECS-CO12.3	4-3/3	4A/60V	—
		Universal Y adapter	ECS-CO8.3	4-3/3	4A/60V	—
	Special	Special Y adapter	ECS-CO12.5	5-5/5	4A/60V	—
		Special Y adapter	ECS-CO12.5/B24	5-4/4	4A/60V	—

Dimensions

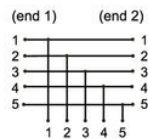


Wiring Diagram

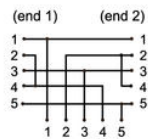
Universal 4-3



Universal 5-5

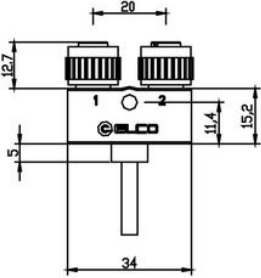


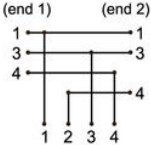
Special 5-4(B24)



Y Adapter with Cable

Type Code							
Cable jacket		Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	Special Y adapter PVC	M12 male straight	ECS-CO12.3-2-C12.4	4-3/3	4A/60V	2m	0.34mm²
		M8 male straight	ECS-CO12.3-2-C8.4	4-3/3	4A/60V	2m	0.25mm²
		M12 male angled	ECS-CO12.3-2-CB12.4	4-3/3	4A/60V	2m	0.34mm²
		M8 male angled	ECS-CO12.3-2-CB8.4	4-3/3	4A/60V	2m	0.25mm²
	Special Y adapter PUR	M12 male straight	ECS-CO12.3-2-C12.4/P	4-3/3	4A/60V	2m	0.34mm²
		M8 male straight	ECS-CO12.3-2-C8.4/P	4-3/3	4A/60V	2m	0.25mm²
		M12 male angled	ECS-CO12.3-2-CB12.4/P	4-3/3	4A/60V	2m	0.34mm²
		M8 male angled	ECS-CO12.3-2-CB8.4/P	4-3/3	4A/60V	2m	0.25mm²

Dimensions	
	

Wiring Diagram	
	<div>Universal 4-3</div> 




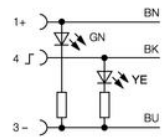
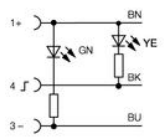
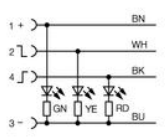
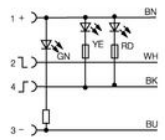
I/O

Connectors


M8

Single-ended I/O Cordsets-M8 (Straight-female)


Type Code						
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length Wire section
	PVC	Female 3-core	CO8.3-2	3	4A/60V	2m 0.25mm ²
		Female 4-core	CO8.4-2	4	4A/30V	2m 0.25mm ²
		Female 3-core PNP	CO8.3-2/L	3	4A/30V	2m 0.25mm ²
		Female 3-core NPN	CO8.3-2/LN	3	4A/30V	2m 0.25mm ²
		Female 4-core PNP	CO8.4-2/L	4	4A/30V	2m 0.25mm ²
		Female 4-core NPN	CO8.4-2/LN	4	4A/30V	2m 0.25mm ²
	PUR	Female 3-core	CO8.3-2/P	3	4A/60V	2m 0.25mm ²
		Female 4-core	CO8.4-2/P	4	4A/30V	2m 0.25mm ²
		Female 3-core PNP	CO8.3-2/L/P	3	4A/30V	2m 0.25mm ²
		Female 3-core NPN	CO8.3-2/LN/P	3	4A/30V	2m 0.25mm ²
		Female 4-core PNP	CO8.4-2/L/P	4	4A/30V	2m 0.25mm ²
		Female 4-core NPN	CO8.4-2/LN/P	4	4A/30V	2m 0.25mm ²
	PVC Shielded	Female 3-core	CO8.3-2/WS	3	4A/60V	2m 0.25mm ²
		Female 4-core	CO8.4-2/WS	4	4A/30V	2m 0.25mm ²
	PUR Shielded	Female 3-core	CO8.3-2/WSP	3	4A/60V	2m 0.25mm ²
		Female 4-core	CO8.4-2/WS/P	4	4A/30V	2m 0.25mm ²

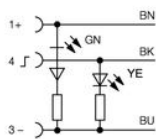
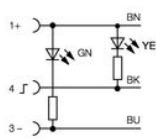
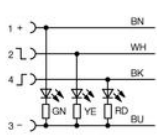
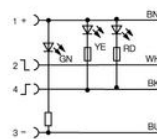
Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

Single-ended I/O Cordsets-M8 (Straight-male)


Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Male 3-core	C8.3-2	3	4A/60V	2m	0.25mm ²
		Male 4-core	C8.4-2	4	4A/30V	2m	0.25mm ²
	PUR	Male 3-core	C8.3-2/P	3	4A/60V	2m	0.25mm ²
		Male 4-core	C8.4-2/P	4	4A/30V	2m	0.25mm ²
	PVC Shielded	Male 3-core	C8.3-2/WS	3	4A/60V	2m	0.25mm ²
		Male 4-core	C8.4-2/WS	4	4A/30V	2m	0.25mm ²
	PUR Shielded	Male 3-core	C8.3-2/WS/P	3	4A/60V	2m	0.25mm ²
		Male 4-core	C8.4-2/WS/P	4	4A/30V	2m	0.25mm ²

Single-ended I/O Cordsets-M8 (Angled-female)


Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Female 3-core	CBO8.3-2	3	4A/60V	2m	0.25mm²
		Female 4-core	CBO8.4-2	4	4A/30V	2m	0.25mm²
		Female 3-core PNP	CBO8.3-2/L	3	4A/30V	2m	0.25mm²
		Female 3-core NPN	CBO8.3-2/LN	3	4A/30V	2m	0.25mm²
		Female 4-core PNP	CBO8.4-2/L	4	4A/30V	2m	0.25mm²
		Female 4-core NPN	CBO8.4-2/LN	4	4A/30V	2m	0.25mm²
	PUR	Female 3-core	CBO8.3-2/P	3	4A/60V	2m	0.25mm²
		Female 4-core	CBO8.4-2/P	4	4A/30V	2m	0.25mm²
		Female 3-core PNP	CBO8.3-2/L/P	3	4A/30V	2m	0.25mm²
		Female 3-core NPN	CBO8.3-2/LN/P	3	4A/30V	2m	0.25mm²
		Female 4-core PNP	CBO8.4-2/L/P	4	4A/30V	2m	0.25mm²
		Female 4-core NPN	CBO8.4-2/LN/P	4	4A/30V	2m	0.25mm²
	PVC Shielded	Female 3-core	CBO8.3-2/WS	3	4A/60V	2m	0.25mm²
		Female 4-core	CBO8.4-2/WS	4	4A/60V	2m	0.25mm²
	PUR Shielded	Female 3-core	CBO8.3-2/WS/P	3	4A/60V	2m	0.25mm²
		Female 4-core	CBO8.4-2/WS/P	4	4A/60V	2m	0.25mm²

Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				



Single-ended I/O Cordsets-M8 (Angled-male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Male 3-core	CB8.3-2	3	4A/60V	2m	0.25mm ²
		Male 4-core	CB8.4-2	4	4A/30V	2m	0.25mm ²
	PUR	Male 3-core	CB8.3-2/P	3	4A/60V	2m	0.25mm ²
		Male 4-core	CB8.4-2/P	4	4A/30V	2m	0.25mm ²
	PVC Shielded	Male 3-core	CB8.3-2/WS	3	4A/60V	2m	0.25mm ²
		Male 4-core	CB8.4-2/WS	4	4A/30V	2m	0.25mm ²
	PUR Shielded	Male 3-core	CB8.3-2/WS/P	3	4A/60V	2m	0.25mm ²
		Male 4-core	CB8.4-2/WS/P	4	4A/30V	2m	0.25mm ²



Double-ended I/O Connector-M8 (female) to M8 (male)

Type Code							
Cable jacket		Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight	CO8.3-2-C8.3	3	4A/60V	2m	0.25mm ²
		3-core straight to angled	CO8.3-2-CB8.3	3	4A/60V	2m	0.25mm ²
		4-core straight to straight	CO8.4-2-C8.4	4	4A/30V	2m	0.25mm ²
		4-core straight to angled	CO8.4-2-CB8.4	4	4A/30V	2m	0.25mm ²
	PUR	3-core straight to straight	CO8.3-2-C8.3/P	3	4A/60V	2m	0.25mm ²
		3-core straight to angled	CO8.3-2-CB8.3/P	3	4A/60V	2m	0.25mm ²
		4-core straight to straight	CO8.4-2-C8.4/P	4	4A/30V	2m	0.25mm ²
		4-core straight to angled	CO8.4-2-CB8.4/P	4	4A/30V	2m	0.25mm ²



Double-ended I/O Connector-M8 (female) to M8 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight	CBO8.3-2-C8.3	3	4A/60V	2m	0.25mm ²
		3-core angled to angled	CBO8.3-2-CB8.3	3	4A/60V	2m	0.25mm ²
		4-core angled to straight	CBO8.4-2-C8.4	4	4A/30V	2m	0.25mm ²
		4-core angled to angled	CBO8.4-2-CB8.4	4	4A/30V	2m	0.25mm ²
	PUR	3-core angled to straight	CBO8.3-2-C8.3/P	3	4A/60V	2m	0.25mm ²
		3-core angled to angled	CBO8.3-2-CB8.3/P	3	4A/60V	2m	0.25mm ²
		4-core angled to straight	CBO8.4-2-C8.4/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled	CBO8.4-2-CB8.4/P	4	4A/30V	2m	0.25mm ²



Double-ended I/O Cordsets-M8 (female) to M12 (male)

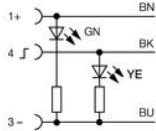
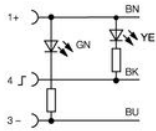
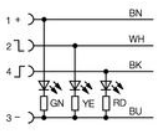
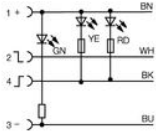
Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight	CO8.3-2-C12.3	3	4A/60V	2m	0.25mm ²
		3-core straight to angled	CO8.3-2-CB12.3	3	4A/60V	2m	0.25mm ²
		4-core straight to straight	CO8.4-2-C12.4	4	4A/30V	2m	0.25mm ²
		4-core straight to angled	CO8.4-2-CB12.4	4	4A/30V	2m	0.25mm ²
	PUR	3-core straight to straight	CO8.3-2-C12.3/P	3	4A/60V	2m	0.25mm ²
		3-core straight to angled	CO8.3-2-CB12.3/P	3	4A/60V	2m	0.25mm ²
		4-core straight to straight	CO8.4-2-C12.4/P	4	4A/30V	2m	0.25mm ²
		4-core straight to angled	CO8.4-2-CB12.4/P	4	4A/30V	2m	0.25mm ²

Double-ended I/O Cordsets-M8 (female) to M12 (male)


Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight	CBO8.3-2-C12.3	3	4A/60V	2m	0.25mm ²
		3-core angled to angled	CBO8.3-2-CB12.3	3	4A/60V	2m	0.25mm ²
		4-core angled to straight	CBO8.4-2-C12.4	4	4A/30V	2m	0.25mm ²
		4-core angled to angled	CBO8.4-2-CB12.4	4	4A/30V	2m	0.25mm ²
	PUR	3-core angled to straight	CBO8.3-2-C12.3/P	3	4A/60V	2m	0.25mm ²
		3-core angled to angled	CBO8.3-2-CB12.3/P	3	4A/60V	2m	0.25mm ²
		4-core angled to straight	CBO8.4-2-C12.4/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled	CBO8.4-2-CB12.4/P	4	4A/30V	2m	0.25mm ²

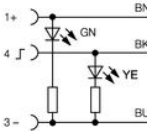
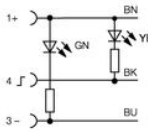
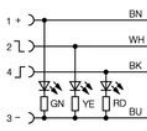
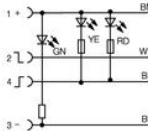
Double-ended I/O Cordsets-M8 (female) to M8 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight LEDPNP	CO8.3-2-C8.3/L	3	4A/30V	2m	0.25mm ²
		3-core straight to angled LEDPNP	CO8.3-2-CB8.3/L	3	4A/30V	2m	0.25mm ²
		4-core straight to straight LEDPNP	CO8.4-2-C8.4/L	4	4A/30V	2m	0.25mm ²
		4-core straight to angled LEDPNP	CO8.4-2-CB8.4/L	4	4A/30V	2m	0.25mm ²
		3-core straight to straight LEDNPN	CO8.3-2-C8.3/LN	3	4A/30V	2m	0.25mm ²
		3-core straight to angled LEDNPN	CO8.3-2-CB8.3/LN	3	4A/30V	2m	0.25mm ²
		4-core straight to straight LEDNPN	CO8.4-2-C8.4/LN	4	4A/30V	2m	0.25mm ²
		4-core straight to angled LEDNPN	CO8.4-2-CB8.4/LN	4	4A/30V	2m	0.25mm ²
	PUR	3-core straight to straight LEDPNP	CO8.3-2-C8.3/L/P	3	4A/30V	2m	0.25mm ²
		3-core straight to angled LEDPNP	CO8.3-2-CB8.3/L/P	3	4A/30V	2m	0.25mm ²
		4-core straight to straight LEDPNP	CO8.4-2-C8.4/L/P	4	4A/30V	2m	0.25mm ²
		4-core straight to angled LEDPNP	CO8.4-2-CB8.4/L/P	4	4A/30V	2m	0.25mm ²
		3-core straight to straight LEDNPN	CO8.3-2-C8.3/LN/P	3	4A/30V	2m	0.25mm ²
		3-core straight to angled LEDNPN	CO8.3-2-CB8.3/LN/P	3	4A/30V	2m	0.25mm ²
		4-core straight to straight LEDNPN	CO8.4-2-C8.4/LN/P	4	4A/30V	2m	0.25mm ²
		4-core straight to angled LEDNPN	CO8.4-2-CB8.4/LN/P	4	4A/30V	2m	0.25mm ²


Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

Double-ended I/O Cordsets-M8 (female) to M8 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight LEDPNP	CBO8.3-2-C8.3/L	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO8.3-2-CB8.3/L	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO8.4-2-C8.4/L	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO8.4-2-CB8.4/L	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO8.3-2-C8.3/LN	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO8.3-2-CB8.3/LN	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO8.4-2-C8.4/LN	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO8.4-2-CB8.4/LN	4	4A/30V	2m	0.25mm ²
	PUR	3-core straight to straight LEDPNP	CBO8.3-2-C8.3/LP	3	4A/30V	2m	0.25mm ²
		3-core straight to angled LEDPNP	CBO8.3-2-CB8.3/L/P	3	4A/30V	2m	0.25mm ²
		4-core straight to straight LEDPNP	CBO8.4-2-C8.4/LP	4	4A/30V	2m	0.25mm ²
		4-core straight to angled LEDPNP	CBO8.4-2-CB8.4/L/P	4	4A/30V	2m	0.25mm ²
		3-core straight to straight LEDNPN	CBO8.3-2-C8.3/LN/P	3	4A/30V	2m	0.25mm ²
		3-core straight to angled LEDNPN	CBO8.3-2-CB8.3/LN/P	3	4A/30V	2m	0.25mm ²
		4-core straight to straight LEDNPN	CBO8.4-2-C8.4/LN/P	4	4A/30V	2m	0.25mm ²
		4-core straight to angled LEDNPN	CBO8.4-2-CB8.4/LN/P	4	4A/30V	2m	0.25mm ²


Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

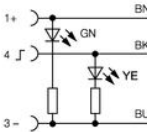
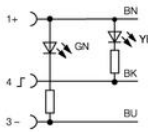
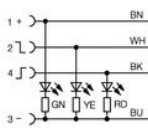
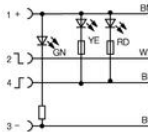
Double-ended I/O Cordsets-M8 (female) to M12 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core straight to straight LEDPNP	CO8.3-2-C12.3/L	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDPNP	CO8.3-2-CB12.3/L	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDPNP	CO8.4-2-C12.4/L	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDPNP	CO8.4-2-CB12.4/L	4	4A/30V	2m	0.25mm²
		3-core straight to straight LEDNPN	CO8.3-2-C12.3/LN	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDNPN	CO8.3-2-CB12.3/LN	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDNPN	CO8.4-2-C12.4/LN	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDNPN	CO8.4-2-CB12.4/LN	4	4A/30V	2m	0.25mm²
	PUR	3-core straight to straight LEDPNP	CO8.3-2-C12.3/L/P	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDPNP	CO8.3-2-CB12.3/L/P	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDPNP	CO8.4-2-C12.4/L/P	4	4A/30V	2m	0.25mm²
		4-core straight to angled LEDPNP	CO8.4-2-CB12.4/L/P	4	4A/30V	2m	0.25mm²
		3-core straight to straight LEDNPN	CO8.3-2-C12.3/LN/P	3	4A/30V	2m	0.25mm²
		3-core straight to angled LEDNPN	CO8.3-2-CB12.3/LN/P	3	4A/30V	2m	0.25mm²
		4-core straight to straight LEDNPN	CO8.4-2-C12.4/LN/P	4	4A/30V	2m	0.25mm²
4-core straight to angled LEDNPN		CO8.4-2-CB12.4/LN/P	4	4A/30V	2m	0.25mm²	


Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core

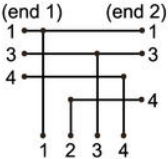
Double-ended I/O Cordsets-M8 (female) to M12 (male)

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	3-core angled to straight LEDPNP	CBO8.3-2-C12.3/L	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO8.3-2-CB12.3/L	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO8.4-2-C12.4/L	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO8.4-2-CB12.4/L	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO8.3-2-C12.3/LN	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO8.3-2-CB12.3/LN	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO8.4-2-C12.4/LN	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO8.4-2-CB12.4/LN	4	4A/30V	2m	0.25mm ²
	PUR	3-core angled to straight LEDPNP	CBO8.3-2-C12.3/L/P	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDPNP	CBO8.3-2-CB12.3/L/P	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDPNP	CBO8.4-2-C12.4/L/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDPNP	CBO8.4-2-CB12.4/L/P	4	4A/30V	2m	0.25mm ²
		3-core angled to straight LEDNPN	CBO8.3-2-C12.3/LN/P	3	4A/30V	2m	0.25mm ²
		3-core angled to angled LEDNPN	CBO8.3-2-CB12.3/LN/P	3	4A/30V	2m	0.25mm ²
		4-core angled to straight LEDNPN	CBO8.4-2-C12.4/LN/P	4	4A/30V	2m	0.25mm ²
		4-core angled to angled LEDNPN	CBO8.4-2-CB12.4/LN/P	4	4A/30V	2m	0.25mm ²


Product with LED	PNP 3-core	NPN 3-core	PNP 4-core	NPN 4-core
				

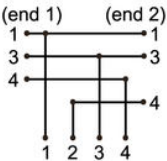
Y Splitter M8-male to M8-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight	ECS-E2CO8.3-2/2	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled	ECS-E2CBO8.3-2/2	4-3/3	4A/30V	2m	0.25mm²
	PUR	Straight to 2 straight	ECS-E2CO8.3-2/2/P	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled	ECS-E2CBO8.3-2/2/P	4-3/3	4A/30V	2m	0.25mm²

Wiring Diagram	Standard
	

Y Splitter M8-male to M12-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight	ECS-E2CO12.3-2/2	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled	ECS-E2CBO12.3-2/2	4-3/3	4A/30V	2m	0.25mm²
	PUR	Straight to 2 straight	ECS-E2CO12.3-2/2/P	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled	ECS-E2CBO12.3-2/2/P	4-3/3	4A/30V	2m	0.25mm²

Wiring Diagram	Standard
	

Y Splitter M8-male to M8-female

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight PNP	ECS-E2CO8.3-2/2/L	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled PNP	ECS-E2CBO8.3-2/2/L	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 straight NPN	ECS-E2CO8.3-2/2/LN	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled NPN	ECS-E2CBO8.3-2/2/LN	4-3/3	4A/30V	2m	0.25mm²
	PUR	Straight to 2 straight PNP	ECS-E2CO8.3-2/2/L/P	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled PNP	ECS-E2CBO8.3-2/2/L/P	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 straight NPN	ECS-E2CO8.3-2/2/LN/P	4-3/3	4A/30V	2m	0.25mm²
		Straight to 2 angled NPN	ECS-E2CBO8.3-2/2/LN/P	4-3/3	4A/30V	2m	0.25mm²


Product with LED	PNP 3-core	NPN 3-core

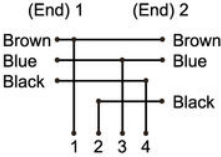
Y Splitter M8-male to M12-female

Type Code								
	Cable jacket	Description		Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Straight to 2 straight	PNP	ECS-E2CO12.3-2/2/L	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled	PNP	ECS-E2CBO12.3-2/2/L	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 straight	NPN	ECS-E2CO12.3-2/2/LN	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled	NPN	ECS-E2CBO12.3-2/2/LN	4-3/3	4A/30V	2m	0.25mm ²
	PUR	Straight to 2 straight	PNP	ECS-E2CO12.3-2/2/L/P	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled	PNP	ECS-E2CBO12.3-2/2/L/P	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 straight	NPN	ECS-E2CO12.3-2/2/LN/P	4-3/3	4A/30V	2m	0.25mm ²
		Straight to 2 angled	NPN	ECS-E2CBO12.3-2/2/LN/P	4-3/3	4A/30V	2m	0.25mm ²

Product with LED	PNP 3-core	NPN 3-core
		

Y Splitter M8(M) to Homerun Cable

Type Code							
	Cable jacket	Description	Type	Pin	Rated current/voltage	Cable length	Wire section
	PVC	Y Splitter M8(M) to homerun cable	ECS-E2.3-2/2	4-3/3	4A/60V	2m	0.25mm²
	PUR	Y Splitter M8(M) to homerun cable	ECS-E2.3-2/2/P	4-3/3	4A/60V	2m	0.25mm²

Wiring Diagram	Standard
	



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