

I/O Cable

Cable is an important part of the pre-wired connector, therefore it's very important to select the right cable for corresponding connector. ELCO connectivity system provide cables with various jackets and functions for different application environment and field.

PVC Cable

The cable with PVC jacket and its 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.

Cable Type	Conductor Cross Section	Optional Cores No.	Wire Diameter(mm)	Matching Products
PVC (gray)	0.25mm ²	3, 4	4.4±0.15	M8
PVC (gray)	0.34mm ²	2, 3, 4, 5	5.2±0.15	M12

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.

Cable Type	Conductor Cross Section	Optional Cores No.	Wire Diameter(mm)	Matching Products
PUR (gray)	0.25mm ²	3, 4	4.4±0.15	M8
PUR (gray)	0.25mm ²	8	6.4±0.15	M12
PUR (gray)	0.34mm ²	2, 3, 4, 5	5.2±0.15	M12













EWSR Cable

The special jacket material can enhanced mechanical properties (including tensile strength, crack resistance and wear resistance) and have high temperature resistance. Once you choose this cable, the detailed field environment and requirements must be clear.

Shielding Cable

The tinned copper braid shielding layer provides a good 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.

Wire Color and Pin Table								Special Cable Jacket Color			
Color Code	corresponding pin 2pin(.2)	corresponding pin 2pin(.21)	corresponding pin 2pin(.22)	corresponding pin 3pin	corresponding pin 4pin	corresponding pin 5pin	corresponding pin 8pin	Jacket Color	Cable Identification		
WH					2	2	1	OG		EWSR	
BN		1	1	3	1	1	1	2	BU		NAMUR (intrinsic safe)
GN								3	BK		PUR
YE								4	GY		PVC PUR
GY							5	5			
PK								6			
BU		4	2	4	3	3	3	7			
RD								8			
BK					4	4	4				

Pre-wired I/O connector

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	8 RD 2 BN 1 WH 3 GN 7 BU 4 YE 6 PK 5 GY
M12 Male	1BN 4BU	2 BU 1BN	3BN 4BU	2 3BU 1BN 4BK	2WH 3BU 1BN 4BK	2WH 5GY 3BU 1BN 4BK	3 GN 2 BN 4 YE 1 WH 5 GY 7 BU 6 PK 8 RD

Dimensions M8				
	Straight Female	Angled Female	Straight Male	Angled Female
Standard				
Special Application				

Dimensions M12				
	Straight Female	Angled Female	Straight Male	Angled Female
Standard				
Special Application				

Connectivity

Field-attachable connector

Pin Assignment				
	3pin	4pin	5pin	8pin
M8 Female				
M8 Male				
M12 Female				
M12 Male				

Dimensions M8			
Straight Female(Welding)	Angled Female(Welding)	Straight Male(Welding)	Angled Male(Welding)

Dimensions M12				
	Straight Female	Angled Female	Straight Male	Angled Female
Plastic housing				
Metal housing				