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)	0.34mm²	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)	0.25mm²	3, 4	4.4±0.15	M8
PUR (gray)	0.25mm²	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 disucuss 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	ВК		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										
2		2ր	?pin			0				
	2.2	2.:	21	2.22		3pin	4pın	5pin	8pin	
le					3 BI	4 BK J ⊚ 1BN	4BK 2WH 3BU 1 BN	3BU 1BN 4BK 2WH		
,					1BI	4BK N ● 3BU	2WH 4BK 1BN 3BU	3BU 1BN 4BK 2WH		
le	1BN (00) 4BU	2BU 1ви (°°)		6 3вн 4ви	2 1ви © 3ви 4вк		2WH 1вN (3 ви 4вк	2WH 1BN © 3BU 5GY 4BK	8 RD 2 BN 9 3 GN 1 WH 6 9 4 YE 7 вО 6 PK	
,	1BN 4BU	21	BU 1BN	3BN 4BU	3в	2 ∪ ●● 1BN 4BK	2WH 3ви •• 1ви 4вк	ZWH 5GY 3BU 1BN 4BK	3 GN 2 BN 8 RD 4 YE 1 WH 5 GY 7 BU	
ns M8										
St	raight Female	e		Angled Female			raight Male	Angle	Angled Female	
32.75 Standard 8 M8x1			18 95	24.45 Ø10 M8x1				25.2		
Special pplication M8x1				0.00			39 00. 00. 00. 00. 00. 00. 00.			
ns M12										
St	raight Female	Э	Angled Female		St	raight Male	Angle	ed Female		
38,4 M12x1		26,5 W12x1		44,1 91 M12x1		32,1	M _{12×1}			
n 44,5 M12x1		30,5 E 6 N M12x1		M12x1	49,8	34.8	0,5 + ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °			
M12x1	34	192								
	e e e e e e e e e e e e e e e e e e e	e 1BN 6 1BN 4BU e 1BN 6 1BN 4BU ms M8 Straight Female 32.75 M8x1 30.95 M8x1 Straight Female 33.44 M12x1 M12x1 34 M12x1 34 M12x1	21 2.2 2.2 2.2 e a	2pin 2.2 2.21 e 1BN 30 4BU 1BN 4BU 2BU 1BN 4BU 1BN 30 1BN 4BU 32.75 30.95 M8x1 30.95 M8x1 30.95 M8x1 30.95 M12x1 344.5 M12x1 34 M12x1 M12x1	2pin 2.2 2.21 2.22 e 1BN 3BN 4BU 1BN 3BN 4BU 1BN 3BN 4BU 1BN 3BN 4BU 32 BU 4BU 33 BN 4BU 30 95 M8x1 Angled Female Angled Female Angled Female Angled Female Angled Female Angled Female	2pin 2.2 2.21 2.22 e	2pin 2.2 2.21 2.22 3pin 2.2 2.21 2.22 3pin 3pin 4BK SBU 1BN 3BU 1BN 3	2pin 2.2 2.21 2.22 3pin 4pin 2.2 2.21 2.22 3pin 4pin 4 BK 2WH 4BK 3BU 1BN	2pin	

Field-attachable connector

Pin	Assignmen	t							
		3pin		4pin		5pin		8pin	
I	M8 Female	3 1		3 2 3 1					
	M8 Male	1 4 3		1 3					
ı	M12 Female	1 (00) 3		1 6003		1 (60)3 5 4		1 2 3 4 1 8 9 5	
	M12 Male	3 4		3 4 1		3 (1) 5		3 2 8 4 5 11 5 6 7	
Dim	ensions M8	3							
;	Straight Fem	ale(Welding)	Angled	Female(Welding)	St	raight Male(Welding)		Angled Male(Welding)	
012 47 M8 x 1 46 M8 x 1 46 M8 x 1 46 M8 x 1 50 Cable Ø max 5.0		Ø12 47 Ø116 M8 x 1 46	M8 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 × 1 ×		~45 ~1.8 39 dpc 0 dpc 7.8 39		34,6 1.36 2,4 8 W Long P. Cable Ø max. 5.0		
;	Straight Fem	ale (Screwing)	Angled F	d Female (Screwing)		Straight Male(Screwing)		Angled Male(Screwing)	
Cable Ø from 3.5 up to 5.0		M8x1	35 REF		Cable Ø from 3.5 up to 5.0		35 REF		
Dim	Dimensions M12								
	Stra	Straight Female		Angled Female		Straight Male		Angled Female	
Plastic housing	Ø 20 M 2×1	~54 ~2.1 02 0		35 25 1.38 98 214.8 0714.8		~60 -2.4 00 00 00 00 00 00 00 00 00 00 00 00 00		41 1.61 0.50 0.70 0.70 0.70 0.70 0.70 0.70 0.70	
Metal housing	Metal housing		43	Ø 20 -	62 SW18		48.3 SW18		