

eleceX

Connectors, Plugs & Sockets

Technical Datasheet



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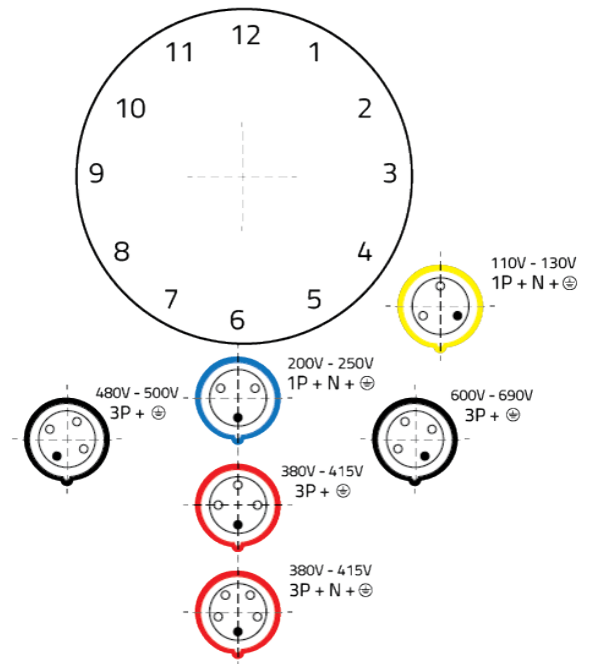
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Selection Guide

Understanding pin & sleeve configurations:

A “clock face” is used to represent the grounding contact position for all female connectors and receptacles. With the keyway at the bottom, the female grounding contact will appear at one of the twelve “hour” positions. To identify the system’s voltage, identify the housing colour and hour location of the connector or receptacle grounding outlet.

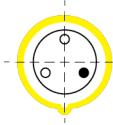
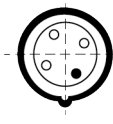



Connector Types:

Connector Type	Description	General Arrangement
Coupler Socket	Our Coupler Socket can be used along side our plugs to safely extend the reach of of your hazardous area equipment. Available in 16A and 32A models, these can be used to build your own ATEX/IECEx compliant extension leads.	
Panel Mount Socket	Our Panel Mount Sockets can be mounted to our Increased Safety Enclosures, or into your own existing equipment or enclosures to produce weather-proof, ATEX and IECEx compliant connection facilities.	
Plug	Available in 16A to 125A models, these can be used to safely connect your portable equipment. Our Hazardous Area Plugs can be used along side our sockets to safely connect or extend the reach of of your portable hazardous area equipment.	
Wall Mount Socket	Our Wall Mount Sockets can be mounted alongside our Increased Safety Enclosures, or at distribution points around your facility to produce weather-proof, ATEX and IECEx compliant connection facilities.	

16A Range (ELCX 0251)

Connector Variants:

Rated Current	Connector (Female connector shown)	Nominal Voltage	Type	Aux. Contact	Order Code (ELCX 025A BCDE FGHI)
16A	 <p>110V - 130V 1P + N + \oplus 4h</p>	110-130V 50/60Hz	Coupler Socket	-	ELCX 0251 3304 0001
			Panel Mount Socket	-	ELCX 0251 8304 0001
			Plug	-	ELCX 0251 7304 0001
			Wall Mount Socket	-	ELCX 0251 4304 0001
	 <p>200V - 250V 1P + N + \oplus 6h</p>	200-250V 50/60Hz	Coupler Socket	-	ELCX 0251 3306 0001
			Panel Mount Socket	-	ELCX 0251 8306 0001
			Plug	-	ELCX 0251 7306 0001
			Wall Mount Socket	-	ELCX 0251 4306 0001
	 <p>380V - 415V 3P + \oplus 6h</p>	380-415V 50/60Hz	Coupler Socket	-	ELCX 0251 3406 0001
			Panel Mount Socket	-	ELCX 0251 8406 0001
			Plug	-	ELCX 0251 7406 0001
			Wall Mount Socket	Y	ELCX 0251 4406 4001
			Wall Mount Socket	N	ELCX 0251 4406 0001
	 <p>480V - 500V 3P + \oplus 7h</p>	480-500V 50/60Hz	Coupler Socket	-	ELCX 0251 3407 0001
			Panel Mount Socket	-	ELCX 0251 8407 0001
			Plug	-	ELCX 0251 7407 0001
			Wall Mount Socket	Y	ELCX 0251 4407 4001
			Wall Mount Socket	N	ELCX 0251 4407 0001
	 <p>600V - 690V 3P + \oplus 5h</p>	600-690V 50/60Hz	Coupler Socket	-	ELCX 0251 3405 0001
			Panel Mount Socket	-	ELCX 0251 8405 0001
			Plug	-	ELCX 0251 7405 0001
			Wall Mount Socket	Y	ELCX 0251 4405 4001
			Wall Mount Socket	N	ELCX 0251 4405 0001
	 <p>380V - 415V 3P + N + \oplus 6h</p>	200-250V 380-415V 50/60Hz	Coupler Socket	-	ELCX 0251 3506 0001
Panel Mount Socket			-	ELCX 0251 8506 0001	
Plug			-	ELCX 0251 7506 0001	
Wall Mount Socket			Y	ELCX 0251 4506 4001	
Wall Mount Socket			N	ELCX 0251 4506 0001	

Hazardous Area Certification:

	16A Plugs, Couplers & Wall Mount Socket	16A Panel Mount Sockets
Approvals:	ATEX, IECEx	ATEX, IECEx
Ex Marking:	Ex de IIC T6 (Tamb ≤ 45 °C) / T5 (Tamb ≤ 55 °C) Gb Ex tD A21 T80 °C (Tamb ≤ 45 °C) / T95 °C (Tamb ≤ 55 °C) IP66	Ex de IIC Gb Ex tD A21
Zones of use:	Zones 1 & 2	Zones 1 & 2
Ambient Temperature Range:	-40 °C to +55 °C	-40 °C to +55 °C

Mounting Dimensions:

See general arrangement diagrams on page Connector Types:

Connector Type	Pin Configuration	D1	D2	D3	L1	L2	L3	L4	L5	L6
Panel Mount Socket (ELCX 0251 8... ..)	1P+N+E	73	4.5	8.4	74	83	66	68	53	-
	3P+E	77	4.5	8.4	75	83	86	88	70	-
	3P+N+E	84	4.5	8.4	75	83	86	88	70	-
Wall Mount Socket (ELCX 0251 4... ..)	1P+N+E	6	-	-	223	156	142	103	86	122
	3P+E	6	-	-	241	176	163	123	106	147
	3P+N+E	6	-	-	241	176	163	123	106	147

Cable Entry Details:

Connector Type	Pin Configuration	Cable Entries	Cable Outside Diameter
Coupler (ELCX 0251 3... ..)	1P+N+E	-	5 – 18.5mm
	3P+E	-	5 – 20mm
	3P+N+E	-	5 – 20mm
Plug (ELCX 0251 7... ..)	1P+N+E	-	5 – 18.5mm
	3P+E	-	5 – 20mm
	3P+N+E	-	5 – 20mm
Wall Mount Socket (ELCX 0251 4... ..)	1P+N+E	1 x M25 Gland	8 – 17mm*
	3P+E	1 x M25 Gland, 1 x M25 Plug	8 – 17mm*
	3P+N+E	1 x M25 Gland, 1 x M25 Plug	8 – 17mm*

*Standard Cable Entry, these may be changed using options below.


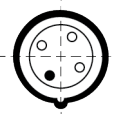
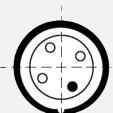
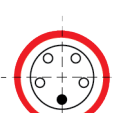
Accessories/Options:

Connector	Accessory	Description
Plug	Protective Cap	The protective cap can be installed to protect the plug pins from damage or environmental influence whilst unplugged in the field, during storage or transportation.
Wall Mount Socket	Brass Connecting Plate	To be used with metal cable glands, it allows easy termination of metal cable glands into the GRP enclosure. This is included when the option of metallic glands is selected.
	Alternate Cable Entries	The standard cable entries may be customised with the following options: 1 x M25 Moulded Plastic Ex e Gland, 1 x M25 Moulded Plastic Plug* 1 x M25 Brass Gland (non-armoured cable), 1 x M25 Moulded Plastic Plug 1 x M25 Brass Gland (armoured cable), 1 x M25 Moulded Plastic Plug 2 x M25 Moulded Plastic Ex e Gland

*Standard Cable Entry Configuration

32A Range (ELCX 0252)

Connector Variants:

Rated Current	Connector (Female connector shown)	Nominal Voltage	Type	Aux. Contact	Order Code (ELCX 025A BCDE FGHI)
32A	 380V - 415V 3P + \oplus 6h	380-415V 50/60Hz	Plug	-	ELCX 0252 7406 0001
			Coupler Socket	-	ELCX 0252 3406 0001
			Panel Mount Socket	-	ELCX 0252 8406 0001
			Wall Mount Socket	Y	ELCX 0252 4406 4001
			Wall Mount Socket	N	ELCX 0252 4406 0001
	 480V - 500V 3P + \oplus 7h	480-500V 50/60Hz	Plug	-	ELCX 0252 7407 0001
			Coupler Socket	-	ELCX 0252 3407 0001
			Panel Mount Socket	-	ELCX 0252 8407 0001
			Wall Mount Socket	Y	ELCX 0252 4407 4001
	 600V - 690V 3P + \oplus 5h	600-690V 50/60Hz	Plug	-	ELCX 0252 7405 0001
			Coupler Socket	-	ELCX 0252 3405 0001
			Panel Mount Socket	-	ELCX 0252 8405 0001
			Wall Mount Socket	Y	ELCX 0252 4405 4001
	 380V - 415V 3P + N + \oplus 6h	380-415V 50/60Hz	Plug	-	ELCX 0252 7506 0001
			Coupler Socket	-	ELCX 0252 3506 0001
			Panel Mount Socket	-	ELCX 0252 8506 0001
Wall Mount Socket			Y	ELCX 0252 4506 4001	
Wall Mount Socket			N	ELCX 0252 4506 0001	

Hazardous Area:

	32A Plugs, Couplers & Wall Mount Socket	32A Panel Mount Sockets
Approvals:	ATEX, IECEx	ATEX, IECEx
Ex Marking:	Ex de IIC T6 (Tamb ≤ 40°C) / T5 (Tamb ≤ 55°C) Gb Ex tD A21 T80°C (Tamb ≤ 40°C) / T95°C (Tamb ≤ 55°C) IP66	Ex de IIC Gb Ex tD A21
Zones of use:	Zones 1 & 2	Zones 1 & 2
Ambient Temperature Range:	-40°C to +55°C	-40°C to +55°C

Mounting Dimensions:

See general arrangement diagrams on page Connector Types:

Connector Type	Pin Configuration	D1	D2	D3	L1	L2	L3	L4	L5	L6
Panel Mount Socket (ELCX 0252 8...)	3P+E	96	5.5	10	90	142	86	88	69.5	-
	3P+N+E	101	5.5	10	90	142	86	88	69.5	-
Wall Mount Socket (ELCX 0252 4...)	3P+E	6	-	-	294	211	198	133	118	162
	3P+N+E	6	-	-	294	211	198	133	118	162

Cable Entry Details:

Connector Type	Pin Configuration	Cable Entries	Cable Outside Diameter
Coupler (ELCX 0252 3...)	3P+E	-	10 – 28mm
	3P+N+E	-	10 – 28mm
Plug (ELCX 0252 7...)	3P+E	-	10 – 28mm
	3P+N+E	-	10 – 28mm
Wall Mount Socket (ELCX 0252 4...)	3P+E	1 x M32 Gland, 1 x M32 Plug	12 – 21mm
	3P+N+E	1 x M32 Gland, 1 x M32 Plug	12 – 21mm

*Standard Cable Entry, these may be changed using options below.




Accessories/Options:

Connector	Accessory	Description
Plug	Protective Cap	The protective cap can be installed to protect the plug pins from damage or environmental influence whilst unplugged in the field, during storage or transportation.
Wall Mount Socket	Brass Connecting Plate	To be used with metal cable glands, it allows easy termination of metal cable glands into the GRP enclosure. This is included when the option of metallic glands is selected.
	Alternate Cable Entries	The standard cable entries may be customised with the following options: 1 x M32 Moulded Plastic Ex e Gland, 1 x M32 Moulded Plastic Plug* 1 x M32 Brass Gland (non-armoured cable), 1 x M32 Moulded Plastic Plug 1 x M32 Brass Gland (armoured cable), 1 x M32 Moulded Plastic Plug 2 x M32 Moulded Plastic Ex e Gland

*Standard Cable Entry Configuration

63A Range (ELCX 0253)

Connector Variants:

Rated Current	Connector (Female connector shown)	Nominal Voltage	Type	Aux. Contact	Order Code (ELCX 025A BCDE FGHI)
63A	 380V - 415V 3P + \oplus 6h	380-415V 50/60Hz	Plug	-	ELCX 0253 7406 0001
			Wall Mount Socket	Y	ELCX 0253 4406 4001
			Wall Mount Socket	N	ELCX 0253 4406 0001
	 480V - 500V 3P + \oplus 7h	480-500V 50/60Hz	Plug	-	ELCX 0253 7407 0001
			Wall Mount Socket	Y	ELCX 0253 4407 4001
			Wall Mount Socket	N	ELCX 0253 4407 0001
	 600V - 690V 3P + \oplus 5h	600-690V 50/60Hz	Plug	-	ELCX 0253 7405 0001
			Wall Mount Socket	Y	ELCX 0253 4405 4001
			Wall Mount Socket	N	ELCX 0253 4405 0001

Hazardous Area:

	63A Plugs & Wall Mount Socket
Approvals:	ATEX, IECEx
Ex Marking:	Ex de IIC T6 (Tamb ≤ 40°C) / T5 (Tamb ≤ 55°C) Gb Ex tD A21 T80°C (Tamb ≤ 40°C) / T95°C (Tamb ≤ 55°C) IP66
Zones of use:	Zones 1 & 2
Ambient Temperature Range:	-40°C to +55°C

Mounting Dimensions:

See general arrangement diagrams on page Connector Types:

Connector Type	Pin Configuration	D1	L1	L2	L3	L4	L5	L6
Wall Mount Socket (ELCX 0253 4...)	3P+E	9	472	371	352	201	181	248
	3P+N+E	9	472	371	352	201	181	248

Cable Entry Details:

Connector Type	Pin Configuration	Cable Entries	Cable Outside Diameter
Plug (ELCX 0253 7...)	3P+E	-	15 – 35mm
	3P+N+E	-	15 – 35mm
Wall Mount Socket (ELCX 0253 4...)	3P+E	1 x M50 Gland, 1 x M50 Plug	22 – 35mm
	3P+N+E	1 x M50 Gland, 1 x M50 Plug	22 – 35mm

*Standard Cable Entry, these may be changed using options below.



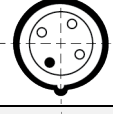



Accessories/Options:

Connector	Accessory	Description
Plug	Protective Cap	The protective cap can be installed to protect the plug pins from damage or environmental influence whilst unplugged in the field, during storage or transportation.
Wall Mount Socket	Brass Connecting Plate	To be used with metal cable glands, it allows easy termination of metal cable glands into the GRP enclosure. This is included when the option of metallic glands is selected.
	Alternate Cable Entries	The standard cable entries may be customised with the following options: 1 x M50 Moulded Plastic Ex e Gland, 1 x M50 Moulded Plastic Plug* 1 x M50 Brass Gland (non-armoured cable), 1 x M50 Moulded Plastic Plug 1 x M50 Brass Gland (armoured cable), 1 x M50 Moulded Plastic Plug 2 x M50 Moulded Plastic Ex e Gland

*Standard Cable Entry Configuration

125A Range (ELCX 0254)

Connector Variants:

Rated Current	Connector (Female connector shown)	Nominal Voltage	Type	Aux. Contact	Order Code (ELCX 0254 BCDE FGHI)
125A	 380V - 415V 3P +  6h	380-415V 50/60Hz	Plug	-	ELCX 0254 7406 0001
			Wall Mount Socket	Y	ELCX 0254 4406 4001
			Wall Mount Socket	N	ELCX 0254 4406 0001
	 480V - 500V 3P +  7h	480-500V 50/60Hz	Plug	-	ELCX 0254 7407 0001
			Wall Mount Socket	Y	ELCX 0254 4407 4001
			Wall Mount Socket	N	ELCX 0254 4407 0001
	 600V - 690V 3P +  5h	600-690V 50/60Hz	Plug	-	ELCX 0254 7405 0001
			Wall Mount Socket	Y	ELCX 0254 4405 4001
			Wall Mount Socket	N	ELCX 0254 4405 0001

Hazardous Area:

	125A Plugs & Wall Mount Socket
Approvals:	ATEX, IECEx
Ex Marking:	Ex de IIC T5 Gb Ex tD A21 T95°C IP66
Zones of use:	Zones 1 & 2
Ambient Temperature Range:	-40°C to +45°C

Mounting Dimensions:

See general arrangement diagrams on page Connector Types:

Connector Type	Pin Configuration	D1	L1	L2	L3	L4	L5	L6
Wall Mount Socket (ELCX 0254 4...)	3P+E	9	537	431	411	249	228	274

Cable Entry Details:

Connector Type	Pin Configuration	Cable Entries	Cable Outside Diameter
Plug (ELCX 0253 7...)	3P+E	-	20 – 57mm
Wall Mount Socket (ELCX 0253 4...)	3P+E	1 x M63 Gland, 1 x M63 Plug	27 – 48mm

*Standard Cable Entry, these may be changed using options below.

Accessories/Options:

Connector	Accessory	Description
Plug	Protective Cap	The protective cap can be installed to protect the plug pins from damage or environmental influence whilst unplugged in the field, during storage or transportation.
Wall Mount Socket	Brass Connecting Plate	To be used with metal cable glands, it allows easy termination of metal cable glands into the GRP enclosure. This is included when the option of metallic glands is selected.
	Alternate Cable Entries	The standard cable entries may be customised with the following options: 1 x M63 Moulded Plastic Ex e Gland, 1 x M50 Moulded Plastic Plug* 1 x M63 Brass Gland (non-armoured cable), 1 x M50 Moulded Plastic Plug 1 x M63 Brass Gland (armoured cable), 1 x M50 Moulded Plastic Plug 2 x M63 Moulded Plastic Ex e Gland

*Standard Cable Entry Configuration