



**BATTERY CONNECTIONS
PRODUCT INTRODUCTION
DOCUMENTS**

F - TYPE CONNECTORS.....(3,4,5)

P - TYPE CONNECTORS.....(6,7,8)

S - TYPE CONNECTORS.....(9,10,11)

R - TYPE CONNECTORS.....(12,13,14)

BATTERY CHARGING CABLE.....(15,16)

F - TYPE CONNECTORS



GENERAL INFORMATION

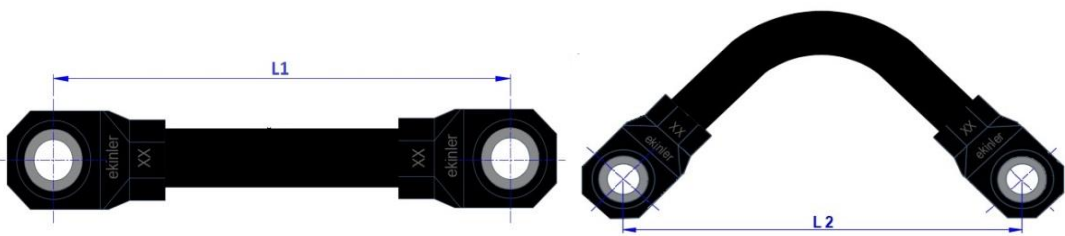
F type battery connectors are flexible products that allow the traction battery cells to be connected to each other. F type battery connectors are assembled to the battery cells with a specially insulated bolt that does not require a cover.

FEATURES

- ❖ High current carrying capacity
- ❖ High flexibility
- ❖ High impermeability (Thanks to special cable insulation and injection materials)
- ❖ Standard products comply with GWT 650(IEC 60695-2-11).
- ❖ There is also VO UL94 / GWT 750 version in order to use in the environments where heat resistance is expected to be high (Mining etc.)
- ❖ Terminal pull-out force complies with MIL-T 7928
- ❖ 100% resistance control and marking
- ❖ Insulation resistance > 1000 MΩ (Under 500 VDC)
- ❖ Protection rating is IP55 (IEC 60529-1)
- ❖ Tin plated terminals
- ❖ %99.9 Copper terminals

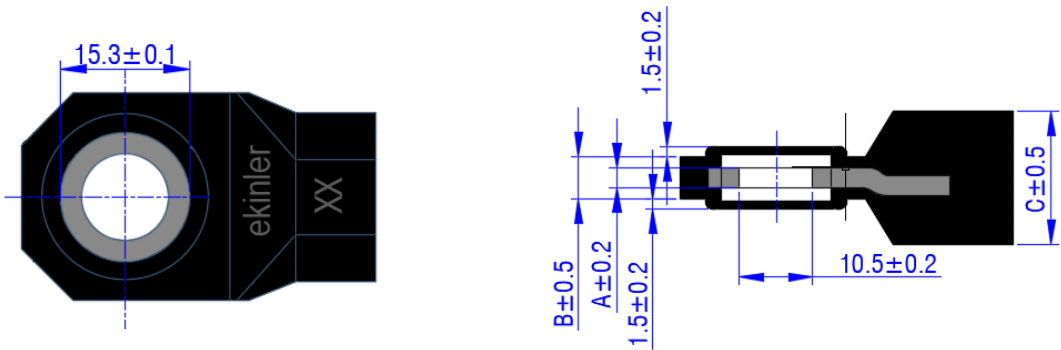
F - TYPE CONNECTORS

FLEXIBILT TABLE



Minimum flexibility length(L2) table according to the connector length(L1)							
Connector Type:	Cable Section:	L2					
		L1: 85mm	L1: 95mm	L1: 110mm	L1: 130mm	L1: 150mm	L1: >150mm
F Type (Flex)	25mm ²	60 mm	40 mm	30 mm	30 mm	30 mm	30 mm
	35mm ²	60 mm	40 mm	30 mm	30 mm	30 mm	30 mm
	50mm ²	70 mm	65 mm	35 mm	30 mm	30 mm	30 mm
	70mm ²	-	-	75 mm	55 mm	35 mm	35 mm
	95mm ²	-	-	85 mm	40 mm	40 mm	35 mm

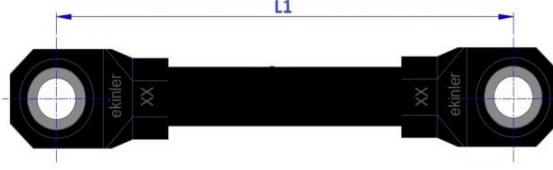
DIMENSIONS (mm)



CABLE SECTION	A	B	C
25mm ²	2	4.75	16.50
35mm ²	2	4.75	16.50
50mm ²	2	5.60	17.50
70mm ²	3	6.00	19.50
95mm ²	3	6.20	23.50

F - TYPE CONNECTORS

Product List



<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>	<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN71000011	25mm ²	75	MEKN71000016	50mm ²	80
MEKN71000089	25mm ²	80	MEKN71000094	50mm ²	90
MEKN71000095	25mm ²	85	MEKN71000003	50mm ²	95
MEKN71000010	25mm ²	90	MEKN71000004	50mm ²	110
MEKN71000009	25mm ²	95	MEKN71000017	50mm ²	130
MEKN71000008	25mm ²	110	MEKN71000018	50mm ²	150
MEKN71000119	25mm ²	150	MEKN71000019	50mm ²	170
MEKN71000102	25mm ²	275	MEKN71000020	50mm ²	210
MEKN71000096	25mm ²	300	MEKN71000104	50mm ²	275
MEKN71000091	25mm ²	600	MEKN71000105	50mm ²	285
			MEKN71000086	50mm ²	300
			MEKN71000081	50mm ²	310
			MEKN71000097	50mm ²	350
			MEKN71000101	50mm ²	500
<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>	<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN71000000	35mm ²	75	MEKN71000092	70mm ²	80
MEKN71000007	35mm ²	80	MEKN71000005	70mm ²	95
MEKN71000039	35mm ²	85	MEKN71000022	70mm ²	110
MEKN71000001	35mm ²	95	MEKN71000023	70mm ²	130
MEKN71000002	35mm ²	110	MEKN71000024	70mm ²	150
MEKN71000012	35mm ²	130	MEKN71000025	70mm ²	170
MEKN71000013	35mm ²	150	MEKN71000026	70mm ²	190
MEKN71000014	35mm ²	170	MEKN71000027	70mm ²	210
MEKN71000121	35mm ²	190	MEKN71000106	70mm ²	275
MEKN71000103	35mm ²	285	MEKN71000107	70mm ²	285
MEKN71000093	35mm ²	300	MEKN71000120	70mm ²	300
MEKN71000100	35mm ²	380	MEKN71000084	70mm ²	310
<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>			
MEKN71000031	95mm ²	80			
MEKN71000032	95mm ²	95			
MEKN71000033	95mm ²	110			
MEKN71000034	95mm ²	130			
MEKN71000035	95mm ²	150			
MEKN71000036	95mm ²	170			
MEKN71000038	95mm ²	210			
MEKN71000098	95mm ²	380			
MEKN71000099	95mm ²	1200			

* Please contact us for different length and cable section requests.

P - TYPE CONNECTORS



GENERAL INFORMATION

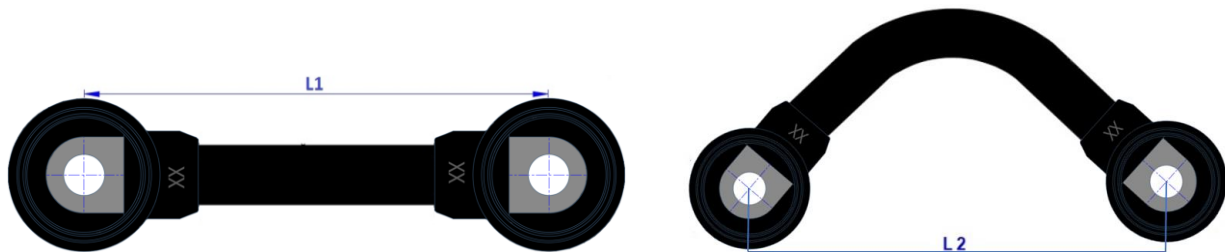
P type battery connectors are flexible products that allow the traction battery cells to be connected to each other. P type battery connectors are assembled to the battery cells with a uninsulated bolt. Upper insulation is provided by special covers.

FEATURES

- ❖ High current carrying capacity
- ❖ High flexibility
- ❖ High impermeability (Thanks to special cable insulation and injection materials)
- ❖ Standard products comply with GWT 650(IEC 60695-2-11).
- ❖ There is also VO UL94 / GWT 750 version in order to use in the environments where heat resistance is expected to be high (Mining etc.)
- ❖ Terminal pull-out force complies with MIL-T 7928
- ❖ 100% resistance control and marking
- ❖ Insulation resistance > 1000 MΩ (Under 500 VDC)
- ❖ Tin plated terminals
- ❖ %99.9 Copper terminals

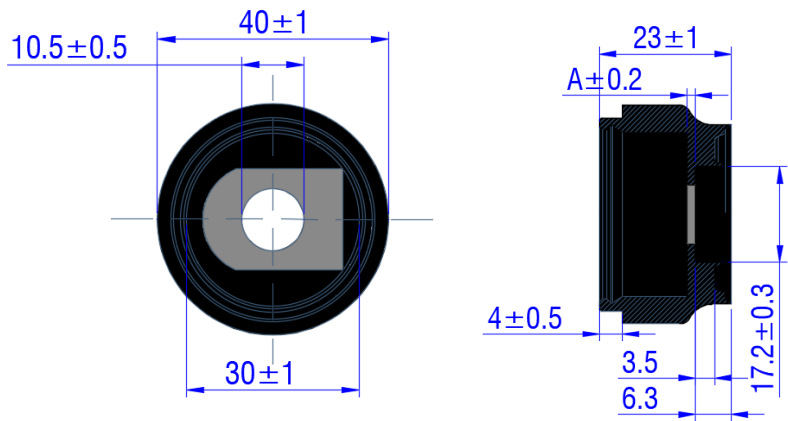
P - TYPE CONNECTORS

FLEXIBILTY TABLE



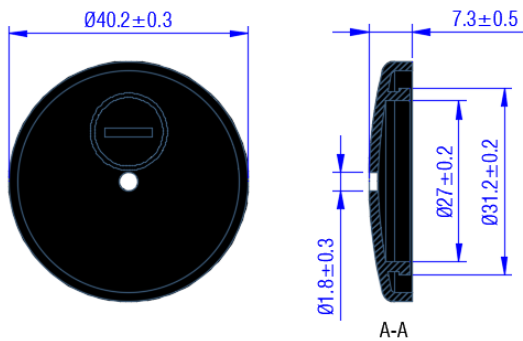
Minimum flexibility length(L2) table according to the connector length(L1)							
Connector Type:	Cable Section:	L2					
		L1: 85mm	L1: 95mm	L1: 110mm	L1: 130mm	L1: 150mm	L1: >150mm
P Type (Pperfect)	35mm²	75 mm	50 mm	40 mm	40 mm	40 mm	40 mm
	50mm²	75 mm	65 mm	45 mm	40 mm	40 mm	40 mm
	70mm²	-	-	80 mm	45 mm	40 mm	40 mm
	95mm²	-	-	100 mm	65 mm	40 mm	40 mm

DIMENSIONS (mm)

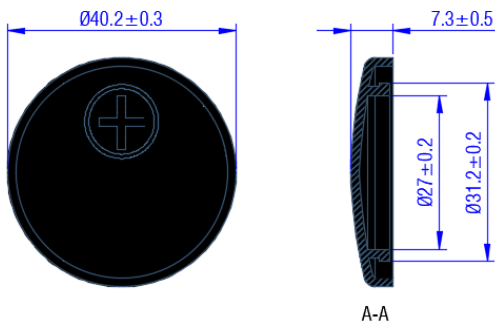


* "A" DIMENSIONS: FOR 25-35-50mm² CABLE = 2mm
FOR 70-95mm² CABLE = 3mm

MINUS (-) COVER

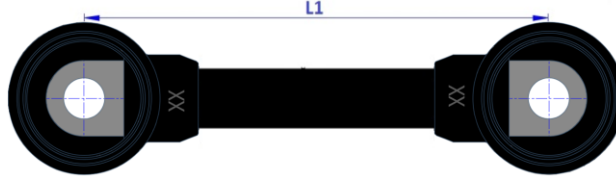


PLUS (+) COVER



P - TYPE CONNECTORS

Product List



<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN72000001	25mm ²	80
MEKN72000002	25mm ²	95
MEKN72000037	25mm ²	100

<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN72000007	35mm ²	100
MEKN72000009	35mm ²	80
MEKN72000065	35mm ²	85
MEKN72000010	35mm ²	95
MEKN72000011	35mm ²	110
MEKN72000012	35mm ²	130
MEKN72000013	35mm ²	150
MEKN72000063	35mm ²	310
MEKN72000082	35mm ²	600
MEKN72000083	35mm ²	1500
MEKN72000084	35mm ²	210
MEKN72000085	35mm ²	1500

<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN72000030	95mm ²	95
MEKN72000031	95mm ²	110
MEKN72000032	95mm ²	130
MEKN72000033	95mm ²	150
MEKN72000034	95mm ²	170
MEKN72000035	95mm ²	190
MEKN72000036	95mm ²	210
MEKN72000046	95mm ²	600
MEKN72000055	95mm ²	310

<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN72000016	50mm ²	80
MEKN72000017	50mm ²	95
MEKN72000018	50mm ²	110
MEKN72000019	50mm ²	130
MEKN72000020	50mm ²	150
MEKN72000021	50mm ²	170
MEKN72000038	50mm ²	100
MEKN72000039	50mm ²	310
MEKN72000062	50mm ²	375
MEKN72000053	50mm ²	600
MEKN72000066	50mm ²	300
MEKN72000081	50mm ²	380

<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN72000061	70mm ²	80
MEKN72000023	70mm ²	95
MEKN72000024	70mm ²	110
MEKN72000025	70mm ²	130
MEKN72000026	70mm ²	150
MEKN72000027	70mm ²	170
MEKN72000029	70mm ²	210
MEKN72000047	70mm ²	100
MEKN72000048	70mm ²	310

* Please contact us for different length and cable section requests.

S - TYPE CONNECTORS



GENERAL INFORMATION

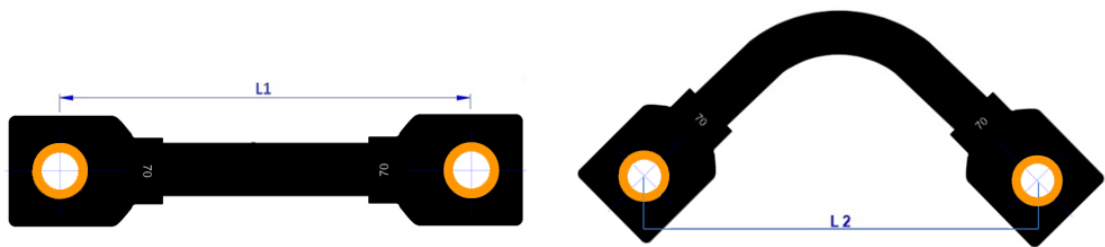
S type battery connectors are flexible products that allow the traction battery cells to be connected to each other. S type battery connectors are assembled to the battery cells with a specially insulated bolt that does not require a cover. S-type connectors are specially designed for use also in challenging environments

FEATURES

- ❖ High current carrying capacity
- ❖ High flexibility
- ❖ High impermeability (Thanks to special cable insulation and injection materials)
- ❖ Standard products comply with GWT 650(IEC 60695-2-11).
- ❖ There is also VO UL94 / GWT 750 version in order to use in the environments where heat resistance is expected to be high (Mining etc.)
- ❖ Usage in challenging environments
- ❖ Terminal pull-out force complies with MIL-T 7928
- ❖ 100% resistance control and marking
- ❖ Insulation resistance > 1000 MΩ (Under 500 VDC)
- ❖ Protection rating is IP55 (IEC 60529-1)
- ❖ %99.9 Copper terminals

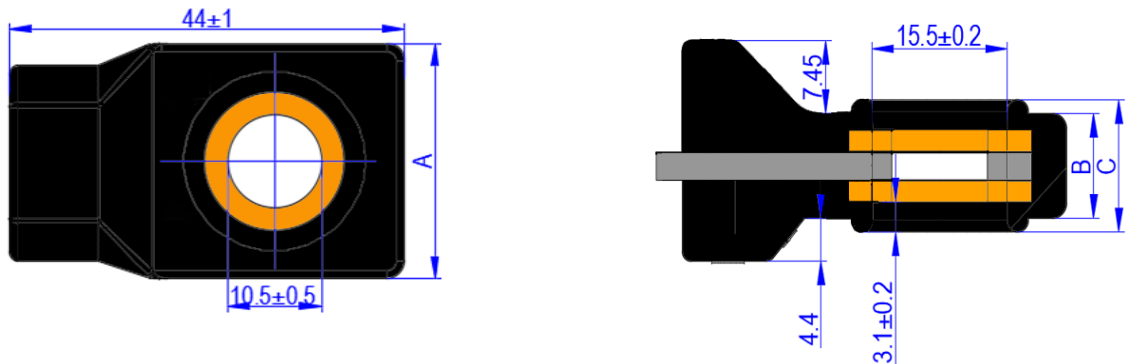
S - TYPE CONNECTORS

FLEXIBILT Y TABLE



Minimum flexibility length(L2) table according to the connector length(L1)							
Connector Type:	Cable Section:	L2					
		L1: 85mm	L1: 95mm	L1: 110mm	L1: 130mm	L1: 150mm	L1: >150mm
S Type (Ferrule)	25mm ²	45 mm	30 mm	30 mm	30 mm	30 mm	30 mm
	35mm ²	45 mm	30 mm	30 mm	30 mm	30 mm	30 mm
	50mm ²	50 mm	40 mm	30 mm	30 mm	30 mm	30 mm
	70mm ²	-	-	40 mm	35 mm	35 mm	35 mm
	95mm ²	-	-	55 mm	45 mm	45 mm	45 mm

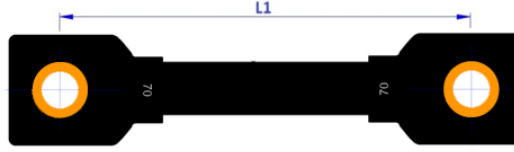
DIMENSIONS (mm)



CABLE SECTION	A	B	C
25mm ²	24.4±0.5	7.5±0.2	10.4±0.2
35mm ²	26.5±0.5	8±0.2	10.8±0.2
50mm ²	29.7±0.5	8.8±0.2	11.6±0.2
70mm ²	31.1±0.5	9.8±0.2	12.6±0.2
95mm ²	34.5±0.5	10.8±0.2	13.5±0.2

S - TYPE CONNECTORS

Product List



<u>Product code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
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MEKN76000016	25mm ²	75
MEKN76000017	25mm ²	95

<u>Product code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
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MEKN76000018	35mm ²	85
MEKN76000000	35mm ²	95
MEKN76000001	35mm ²	110
MEKN76000015	35mm ²	130
MEKN76000014	35mm ²	150

<u>Product code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
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MEKN76000002	50mm ²	95
MEKN76000003	50mm ²	110
MEKN76000012	50mm ²	130
MEKN76000013	50mm ²	150

<u>Product code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
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MEKN76000004	70mm ²	95
MEKN76000005	70mm ²	110
MEKN76000020	70mm ²	130

<u>Product code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
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MEKN76000011	95mm ²	95
MEKN76000006	95mm ²	110
MEKN76000008	95mm ²	130
MEKN76000007	95mm ²	750

* Please contact us for different length and cable section requests.

R - TYPE CONNECTORS



GENERAL INFORMATION

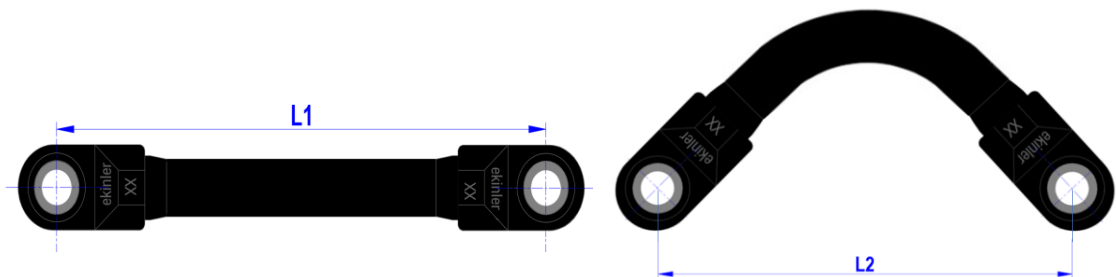
R type battery connectors are flexible products that allow the traction battery cells to be connected to each other. R type battery connectors are assembled to the battery cells with a specially insulated bolt that does not require a cover.

FEATURES

- ❖ High current carrying capacity
- ❖ High flexibility
- ❖ High impermeability (Thanks to special cable insulation and injection materials)
- ❖ Standard products comply with GWT 650(IEC 60695-2-11).
- ❖ There is also VO UL94 / GWT 750 version in order to use in the environments where heat resistance is expected to be high (Mining etc.)
- ❖ Terminal pull-out force complies with MIL-T 7928
- ❖ 100% resistance control and marking
- ❖ Insulation resistance > 1000 MΩ (Under 500 VDC)
- ❖ Protection rating is IP55 (IEC 60529-1)
- ❖ Tin plated terminals
- ❖ %99.9 Copper terminals

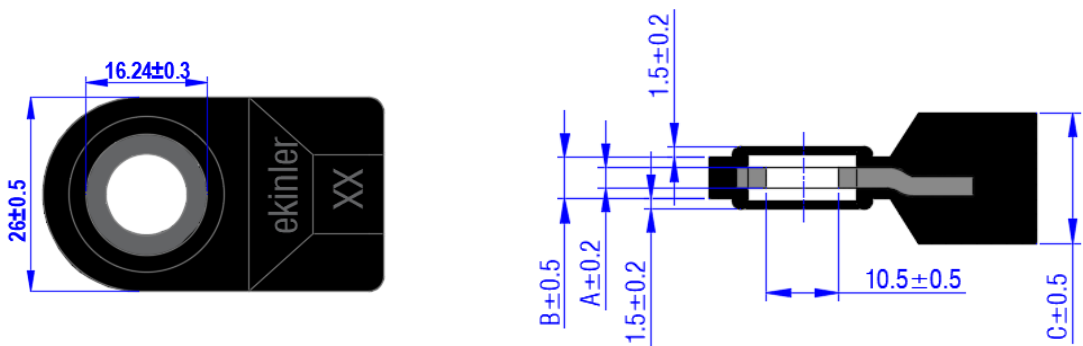
R - TYPE CONNECTORS

FLEXIBILITY TABLE



Minimum flexibility length(L2) table according to the connector length(L1)							
Connector Type:	Cable Section:	L2					
		L1: 85mm	L1: 95mm	L1: 110mm	L1: 130mm	L1: 150mm	L1: >150mm
F Type (Flex)	25mm ²	60 mm	40 mm	30 mm	30 mm	30 mm	30 mm
	35mm ²	60 mm	40 mm	30 mm	30 mm	30 mm	30 mm
	50mm ²	70 mm	65 mm	35 mm	30 mm	30 mm	30 mm
	70mm ²	-	-	75 mm	55 mm	35 mm	35 mm
	95mm ²	-	-	85 mm	40 mm	40 mm	35 mm

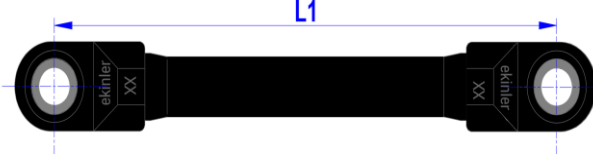
DIMENSIONS (mm)



CABLE SECTION	A	B	C
25mm ²	2	4.75	16.50
35mm ²	2	4.75	16.50
50mm ²	2	5.60	17.50
70mm ²	3	6.00	19.50
95mm ²	3	6.20	23.50

R - TYPE CONNECTORS

Product List



<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN71000108	35mm ²	95
MEKN71000109	35mm ²	110

<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN71000110	50mm ²	95
MEKN71000111	50mm ²	110
MEKN71000112	50mm ²	130
MEKN71000113	50mm ²	170

<u>Product Code</u>	<u>Cable Section</u>	<u>L1(mm)</u>
MEKN71000114	70mm ²	95
MEKN71000115	70mm ²	110
MEKN71000116	70mm ²	130
MEKN71000117	70mm ²	150
MEKN71000118	70mm ²	170

* Please contact us for different length and cable section requests.

BATTERY CHARGING CABLE



GENERAL INFORMATION

Battery charging cables are customized, flexible and durable products that allow easy charging of batteries. For this purpose, they are produced as customized products with many connection types.

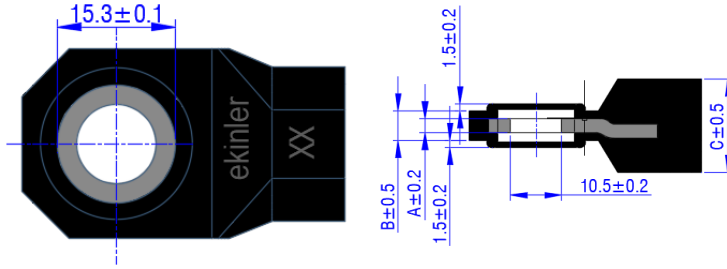
FEATURES

- ❖ High current carrying capacity
- ❖ High flexibility
- ❖ High impermeability (Thanks to special cable insulation and injection materials)
- ❖ Cable cross section range is between 16mm^2 - 120mm^2
- ❖ Terminal pull-out force complies with MIL-T 7928
- ❖ 100% resistance control and marking
- ❖ %99.9 Copper terminals
- ❖ Class-5 and Class-6 cable can be used
- ❖ Various connection types (Connectors, Terminals, cable lugs etc.)

BATTERY CHARGING CABLE

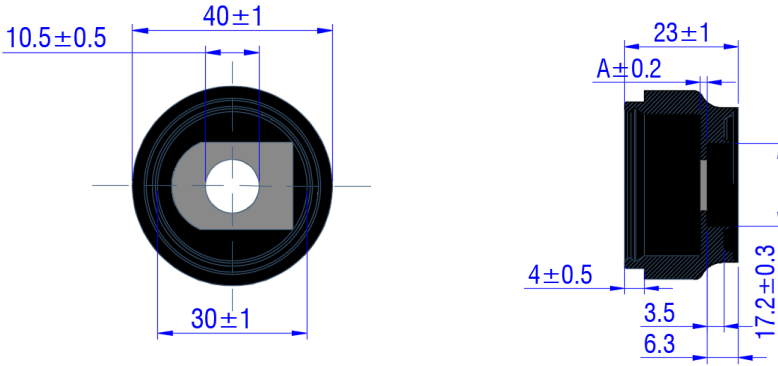
CONNECTOR DIMENSIONS (mm)

F - TYPE CONNECTOR



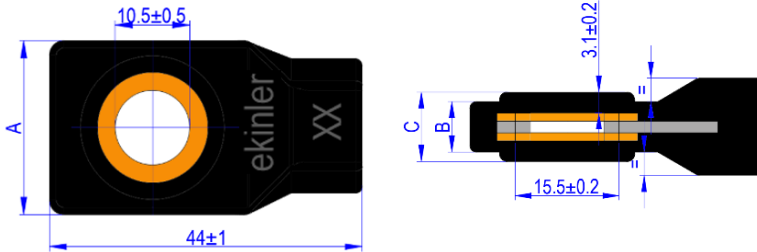
CABLE SECTION	A	B	C
25mm ²	2	4.75	16.5
35mm ²	2	4.75	16.5
50mm ²	2	5.60	17.5
70mm ²	3	6	19.5
95mm ²	3	6.20	23.5

P - TYPE CONNECTOR



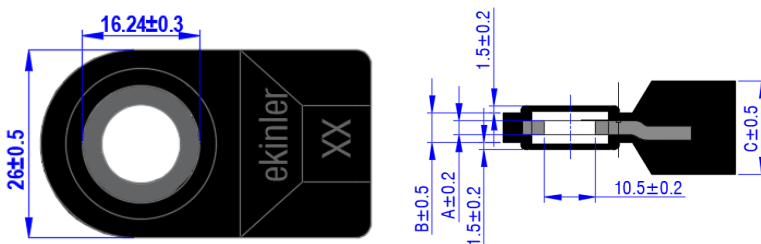
CABLE SECTION	A
25mm ²	2
35mm ²	2
50mm ²	2
70mm ²	3
95mm ²	3

S - TYPE CONNECTOR



CABLE SECTION	A	B	C
25mm ²	24.4 $\pm$ 0.5	7.5 $\pm$ 0.2	10.4 $\pm$ 0.2
35mm ²	26.5 $\pm$ 0.5	8 $\pm$ 0.2	10.8 $\pm$ 0.2
50mm ²	29.7 $\pm$ 0.5	8.8 $\pm$ 0.2	11.6 $\pm$ 0.2
70mm ²	31.1 $\pm$ 0.5	9.8 $\pm$ 0.2	12.6 $\pm$ 0.2
95mm ²	34.5 $\pm$ 0.5	10.8 $\pm$ 0.2	13.5 $\pm$ 0.2

R - TYPE CONNECTOR



CABLE SECTION	A	B	C
25mm ²	2	4.75	16.5
35mm ²	2	4.75	16.5
50mm ²	2	5.60	17.5
70mm ²	3	6	19.5
95mm ²	3	6.20	23.5

* Please contact us for different product types, cable cross-sections, cable lengths and connector types.