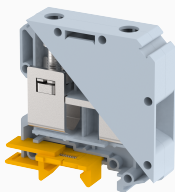




## KUT50 - Product Details

### General Information

Company	Elmex Group
Product Category	Terminal Blocks
Product Group	Feed Through Terminal Blocks
Connection Method	Screw Connection

### Product Data

Product Name	KUT50
Product Image	
Line Diagram	
Short Description	Feed Through Terminal Block - Screw Connection
Full Description	Terminal Type - KUT50 , Feed-through terminal block, nominal voltage: 1000 V, nominal current: 150 A, connection method: Screw connection, number of connections: 2, cross section: 16 mm <sup>2</sup> - 70 mm <sup>2</sup> , AWG: 6 - 0, width: 20.5 mm , length : 71 mm , height : 75.5 mm , mounting type: TS35/7.5 , TS35/15 , and TS32
Approvals	
Standard Colour	Gray
Colour Variants	Black , Blue , Green , Khakhi , Red , Yellow ,

### Key Commercial Data

Standard Weight	117.9 Kg
Weight per Piece (excluding packing)	110 g
Packing Unit	10 pc
Minimum Order Quantity	10 pc
GTIN Number	85389000
Country Of Origin	India

### Technical Data - General

Number of levels	1
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Number of connections	2
Potentials	1
Nominal cross section	50 mm <sup>2</sup>
Insulating Material	Polyamide 6 , 6
Clamping Material	CRCA
Flammability rating acc. to UL 94	V2 (V0 - on customer demand)
Area of application	
Rated surge voltage	12 kV
Degree of pollution	3
Overvoltage category	III
Maximum power dissipation for nominal condition	4.48 W
Nominal Current I <sub>N</sub>	150 A
Nominal Voltage U <sub>N</sub>	1000 V
Open side panel	No
Back of the hand protection	Guaranteed
Finger Protection	Guaranteed
Result Of Surge Voltage Test	Test passed
Surge Voltage Test Setpoint	14.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points	Test passed
Result of bending test	Test passed
Bending test rotation speed	9
Bending test turns	135
Bending test conductor cross section/weight	16 mm <sup>2</sup> / 2.9 kg , 50 mm <sup>2</sup> / 9.5 kg , 70 mm <sup>2</sup> /10.4 kg
Tensile test result	Test passed
Conductor cross section tensile test	16 mm <sup>2</sup>
Tractive force setpoint	100 N
Conductor cross section tensile test	50 mm <sup>2</sup>
Tractive force setpoint	236 N
Conductor cross section tensile test	70 mm <sup>2</sup>
Tractive force setpoint	285 N
Result of tight fit on support	Test passed
Tight fit on carrier	TS35/7.5 , TS35/15 , and TS32
Setpoint	10
Result of voltage-drop test	Test passed
Requirements, voltage drop	<=3.2 mV
Result of temperature-rise test	Test passed

Short circuit stability result	Test passed
Conductor cross section short circuit testing	50 mm <sup>2</sup>
Short-time current	6 kA
Relative insulation material temperature index	130 °C
Temperature index of insulation material	130 °C
Static insulating material application in cold	-40 °C
Flame test method	Vertical
Oxygen index	28 %
Surface flammability	Passed
Specific optical density of smoke	Passed
Smoke gas toxicity	Passed

## Dimensions

Width	20.5 mm	0.81 inch
Length	71 mm	2.8 inch
Height	75.5 mm	2.97 inch
Height NS 35/7,5	76.3 mm	3 inch
Height NS 35/15	83.8 mm	3.3 inch
Height NS 32/15	80.7 mm	3.18 inch

## Connection Data

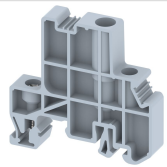
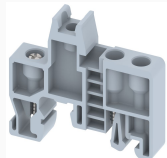
Screw thread	M6
Stripping length	24 mm
Tightening torque, min	8 Nm
Tightening torque, max	8.8 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min	16 mm <sup>2</sup>
Conductor cross section solid max	70 mm <sup>2</sup>
Conductor cross section AWG min, Solid	6
Conductor cross section AWG max, Solid	2/0
Conductor cross section flexible min	16 mm <sup>2</sup>
Conductor cross section flexible max	50 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	6
Max. AWG conductor cross section, flexible	2/0

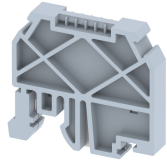
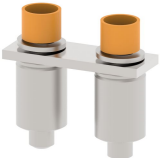
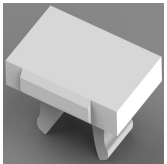
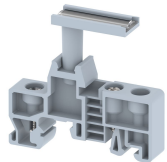





Internal cylindrical Gauge	A10
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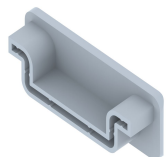
## Approval Details

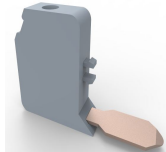
UL Standard	UL 1059
B - UL Nominal Voltage $U_N$	600 V
B - UL Nominal Current $I_N$	150 A
B - UL Wire Min	6 AWG
B - UL Wire Max	2/0 AWG
C - UL Nominal Voltage $U_N$	600 V
C - UL Nominal Current $I_N$	150 A
C - UL Wire Min	6 AWG
C - UL Wire Max	2/0 AWG
CSA Standard	CSA C22.2 NO 158
B - CSA Nominal Voltage $U_N$	600 V
B - CSA Nominal Current $I_N$	150 A
B - CSA Wire Min	6 AWG
B - CSA Wire Max	2/0 AWG
C - CSA Nominal Voltage $U_N$	600 V
C - CSA Nominal Current $I_N$	150 A
C - CSA Wire Min	6 AWG
C - CSA Wire Max	2/0 AWG
ATEX Standard	EN-60079-7
ATEX Nominal Voltage $U_N$	1000 V
ATEX Nominal Current $I_N$	150 A
ATEX Cross Section Solid Min.	16 mm <sup>2</sup>
ATEX Cross Section Solid Max.	70 mm <sup>2</sup>
ATEX Cross Sec. Flexible Min.	16 mm <sup>2</sup>
ATEX Cross Sec. Flexible Max.	50 mm <sup>2</sup>

## Product Accessories

End Clamp				
SCUDD	Height	50.00 mm	1.97 inch	
	Width	10.00 mm	0.39 inch	
	Length	55.50 mm	2.19 inch	
SCUN	Height	35.50 mm	1.40 inch	
	Width	9.50 mm	0.37 inch	
	Length	50.60 mm	1.99 inch	

End Clamp				
SCUSL	Height Width Length	41.00 mm 8.00 mm 47.50 mm	1.61 inch 0.31 inch 1.87 inch	
Fixed Bridge				
CCLA50	Pitch	20.50 mm	0.81 inch	
Marker For Terminal Blocks				
LABEL KN17	Width	17.00 mm	0.67 inch	
Marker carriers				
SCUNMLH	Height Width Length	53.50 mm 8.00 mm 50.60 mm	2.11 inch 0.31 inch 1.99 inch	
DIN Rail Perforated				
CHKDS	Height Width Thickness	15.00 mm 35.00 mm 1.50 mm	0.59 inch 1.38 inch 0.06 inch	
CHKS	Height Width Thickness	7.50 mm 35.00 mm 1.00 mm	0.30 inch 1.38 inch 0.04 inch	
CHS	Height Width Thickness	15.00 mm 32.00 mm 1.50 mm	0.59 inch 1.26 inch 0.06 inch	
DIN Rail, Unperforated				
CHK	Height Width Thickness	7.50 mm 35.00 mm 1.00 mm	0.30 inch 1.38 inch 0.04 inch	
CHKD	Height Width Thickness	15.00 mm 35.00 mm 1.00 mm	0.59 inch 1.38 inch 0.04 inch	

End Cap				
CHKENDCAP	Height	14.00 mm	0.55 inch	
	Width	9.00 mm	0.35 inch	
	Length	41.50 mm	1.63 inch	

Tap Terminal				
KTT6	Height	31.00 mm	1.22 inch	
	Width	28.00 mm	1.10 inch	