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Mechanical Cable Lugs up to 52 kV, centric with shear-off-head bolts and transverse grooving (C-Series)

STANDARDS

Test IEC 61238-1

DESCRIPTION

Using C-Series mechanical cable lugs allows a larger, multirange conductor cross-section even for terminations. The mechanical cable lugs are generally tinplated and are offered with different palm holes, just like compression cable lugs.

Material:

Connector Body: high strength
aluminum alloy

Bolts: brass, tin-plated, with inner and outer hexagon or aluminum alloy

Surface:

Connector Body: tin-plated

Centering: center rings or inserts are enclosed for centric conductor positioning

Connectors filled with compound and sealed in plastic.

Advantages

Simple, quick installation:

With common commercially available inner and outer hexagon tools or an approved impact wrench.

Minimum storage costs:

The cross-sectional area from 16 mm² to 1000 mm² is covered by just 4 types of cable lugs.

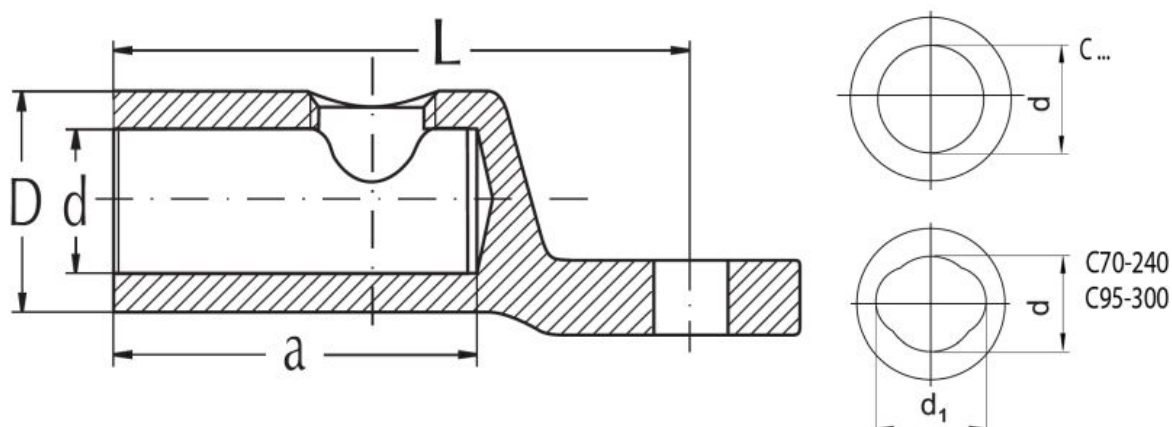
Universal applicability:

Can be used for copper and aluminium conductors according to EN 60228 classes 1 & 2. For use of our mechanical connectors with class 5 flexible copper conductors, please contact us.

Proven quality:

Tested for class 2 conductors according to IEC 61238-1, in failure-free operation for more than 15 years.

DIMENSIONS C-SERIES



SELECTION TABLE C-SERIES

Listen-Nr. Cat. no.	AL in mm ² AL in mm ²			CU in mm ² CU in mm ²		Anzahl der Schrau- ben Number of bolts	Maße in mm Dimensions mm				Laschen- bohrung mm Palm hole mm	Werkzeug Außen- & Innen- Sechskant Tool/ outer and inner hexagon
	rm(v) round stranded	re round solid	sm sector stranded	rm(v) round stranded	sm sector stranded		L	d	D	a		
C16-95 x 12	16-95	10-95	25-70	16-95	25-70	1	60	12,5	24	32	13	SW10 & SW6
C16-95 x 16											17	
C25-150 x 12	25-150	25-150	35-120	25-150	35-120	1	79	15,5	30	35	13	SW10 & SW6
C25-150 x 16											17	
C70-240 x 12	70-240	70-240	70-240	70-240	70-240	2	93,5	22 ¹⁾	35	56	13	SW13 & SW6
C70-240 x 16											17	
C95-240 x 12	95-240	95-240	95-185	95-240	95-185	2	95	20	33	56	13	SW13 & SW6
C95-240 x 16											17	
C95-300 x 12	95-300	95-300	95-240	70-300	70-240	2	105	23 ¹⁾	36	67	13	SW13 & SW8
C95-300 x 16											17	
C120-300 x 12	120-300	120-300	120-240	120-300	120-240	2	105	25	38	67	13	SW19 & SW6
C120-300 x 16											17	
C185-400 x 12	185-400	185-400	185-300	185-400	185-300	3	120	26	42	82	13	SW19 & SW6
C185-400 x 16											17	
C300-500 x 12	300-500	300-500	300-400	300-500	300-400	3	130	34	52	94	13	SW19 & SW8
C300-500 x 16											17	
C300-500 x 20											21	
C400-630 x 12	400-630	400-630	400-500	400-630	400-500	3	130	34	52	94	13	SW19 & SW8
C400-630 x 16											17	
C400-630 x 20											21	
C630-1000 x 20 ²⁾	630-1000	630-1000		630-1000		4	165	41	65	105	21	SW19 & SW8
C800-1200 x 20 ²⁾	800-1200	630-1200		630-1000		4	170	45	72	105	21	SW22 & SW8

TECHNICAL NOTE C-SERIES

⁽¹⁾Dimension d₂=26 ⁽²⁾Centric conductor positioning by center inserts

Other palm holes on request.

TECHNICAL DETAILS

The bolt has an inner and outer hexagon. Both are related to the various shear-off-areas of the bolt and their different torque moments.

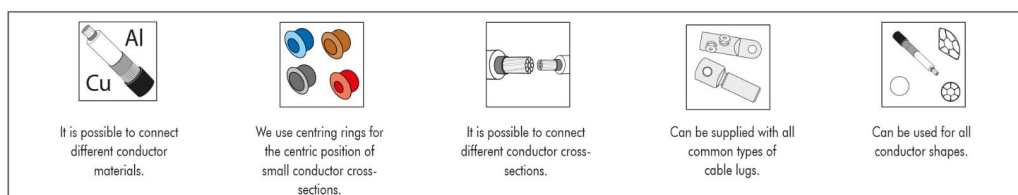
The torque moments follow the rule that large conductor cross sections need high torque moments and smaller cross sections need lower torque moments.

The installation instruction describes the use of both hexagons and of the various center rings and inserts, for the respective conductor types.

CENTRING OF THE CONDUCTOR

For the centric position of smaller conductor cross-sections in the conductor channel, we use centring rings that must be pressed all the way into the channel of the cable lug before assembling the corresponding conductor cross-section. The centring rings differ in colour and are assigned to the respective type of conductor. Appropriate assembly instructions describe which type of conductor the centring rings are to be used for. The conductor is centred using a centring insert in the case of the largest cross-sectional area.

PICTOGRAMS



TECHNICAL INSTRUCTIONS AND APPLICATION INFORMATION (MECHANICAL CONNECTORS AND CABLE LUGS)

The data given were determined diligently, but do not release our customers of the duty to carry out tests themselves in order to check the suitability of the products delivered by us for the intended use. We reserve the right to modify characteristic and performance data according to the present state of technology. Processing and use of the products cannot be controlled by us and are therefore exclusively in your field of responsibility.

Our products meet the VDE standards respectively correspond to DIN pages and IEC recommendations. Attention: Before first design in please contact manufacturer.

The products, described in this catalogue, are designed for connection of energy cable conductors (Class 1 & 2) with description of round solid (RE), round stranded (RM), as well as sector solid (SE), sector stranded (SM) and round stranded compacted (RMV) exclusively on bare conductors and for conductor temperatures up to 90 °C. All conductor filling materials like tapes, yarn, powder or similar need to be completely removed before mounting.

The conductor standard DIN EN 60228 does not define binding cable dimensions. Despite of all carefulness of the manufacturer, general application capability of GPH® compression products for EN conductors cannot be assured. A check on basis of the actual existing conductor dimensions by the user is indispensable. This applies also for the application of flexible conductors (Class 5 & 6).

For the use of flexible copper conductors (Class 5) with the M/C series, an additional bolt set WS ... CU-FLEX has to be used. By using the D series, cross-sections given in the selection table can be clamped with or without contact sleeve. A check on basis of the actual existing conductor dimensions by the user is indispensable. This applies also for the application of Class 6 conductors or other special conductors.

Impact wrenches have to be approved by Nexans! Depending on different conductor material or conductor type, indicated values may differ from test values acc. to IEC 61238-1. The use of fine stranded conductors has to be approved by Nexans Power Accessories Germany GmbH.

Our responsibilities are only those listed in the latest edition of "General terms and conditions for the supply of products and services of the electrical and electronics industry". We only use packaging materials able to be recycled due to the latest regulation on packaging. Sales packaging are not taken back.

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