


<p>IZAR Grafitowa 6, 55-010 Radwanice, Poland</p>	<p>COMPANY STANDARD</p>	<p>Standard number.: NZ1-5:2020</p>
	<p>TOLERANCE OF LINEAR AND ANGULAR DIMENSIONS OF CURRENT CONNECTIONS</p>	<p>Implemented: 4.5.2020</p>
		<p>Replaces:</p>

1. INTRODUCTION

1.1 Subject of the standard

The subject of this standard is dimensional tolerances of current connections sell by IZAR, which is a manufacturer of current connections such as copper and aluminum flexible and rigid connections.

1.2 General provisions

The Company Standard binds the parties, unless nothing else results from written agreements concluded between the authorized representatives of the parties. The Company Standard is an integral part of every price list, offer and contract. Acceptance of the order for implementation also constitutes acceptance of the Company Standard by the Producer and an Customer. The parties undertaking cooperation, taking into account the Company Standard, undertake it in good faith, observing the principles of commercial reliability and integrity and respecting the law. The objects of trade between the parties are goods contained in the commercial offer of IZAR.

1.3 Scope of the application

The requirements of the Company Standard should be applied in the design, production, assembly and final acceptance of current connections by the Producer and an Customer or by their representatives.

2. PROVISIONS OF THE STANDARD

2.1 Specifications of the standard

This Company Standard was created based on the ISO 2768-1 standard and the technological capabilities of the Company.

2.2 Dimensions of rigid connections

Dimensions of rigid connections are made according to ISO 2768-1 standards. By default, the tolerance class is: C. They are determined by tables below (the exception are dimensions with tolerances specified in the drawing or agreed with the customer).

Tolerance class		Permissible deviations in mm for ranges in nominal lengths							
Designation	Description	0,5 up to 3	over 3 up to 6	over 6 up to 30	over 30 up to 120	over 120 up to 400	over 400 up to 1000	over 1000 up to 2000	over 2000 up to 4000
f	fine	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5	-
m	medium	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2
c	coarse	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3	±4
v	very coarse	-	±0,5	±1	±1,5	±2,5	±4	±6	±8

Table 1 Linear dimensions

Tolerance class		Permissible deviations in mm for ranges in nominal lengths		
Designation	Description	0,5 up to 3	over 3 up to 6	over 6
f	fine	±0,2	±0,5	±1
m	medium			
c	coarse	±0,4	±1	±2
v	very coarse			

Table 2 External radius and chamfer heights

Tolerance class		Permissible deviations in degrees and minutes for ranges in nominal lengths				
Designation	Description	up to 10	over 10 up to 50	over 50 up to 120	over 120 up to 400	over 400
f	fine	±1°	±0°30'	±0°20'	±0°10'	±0°05'
m	medium					
c	coarse	±1°30'	±1°	±0°30'	±0°15'	±0°10'
v	very coarse	±3°	±2°	±1°	±0°30'	±0°20'

Table 3 Angular dimensions [°]¹

2.3 Dimensions of flexible braided connections

Unless otherwise agreed with the customer, the overall lengths, lengths, widths and thicknesses of terminals are specially tolerated. Other linear dimensions are tolerated as in the case of rigid connections (section 2.2).

For connections made of copper braid:

Permissible limit deviations for exact dimensions			
Total length	Length of terminals	Width of terminals	Thickness of terminals
from 150mm +5mm from 151mm +15mm	+ 3mm	+2 mm	+/-1 mm

Table 4 Permissible limit deviations for connections made of copper braid

2.4 Dimensions of flexible press-welded/riveted copper connections

Unless otherwise agreed with the customer, the overall lengths, lengths, widths and thicknesses of terminals are specially tolerated. Other linear dimensions are tolerated as in the case of rigid connections (section 2.2).

For flexible press-welded / riveted copper connections:

Permissible limit deviations for exact dimensions			
Total external length	Length of terminals	Width of terminals	Thickness of terminals
+ 5mm	+ 5 mm	+1 mm	+0,3 mm

Table 5 Permissible limit deviations for press-welded/riveted connections

2.5 Dimensions of flexible welded aluminium connections

Unless otherwise agreed with the customer, the overall lengths, lengths, widths and thicknesses of terminals are specially tolerated. Other linear dimensions are tolerated as in the case of rigid connections (section 2.2).

For flexible aluminum welded connections:

Permissible limit deviations for exact dimensions			
Total external length	Length of terminals	Width of terminals	Thickness of terminals
+ 5mm	+ 5 mm	+1 mm	+0,5 mm

Table 6 Permissible limit deviations for aluminium welded flexible connections

