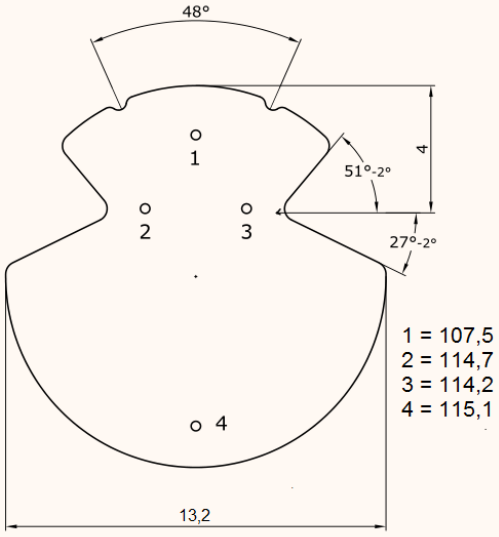
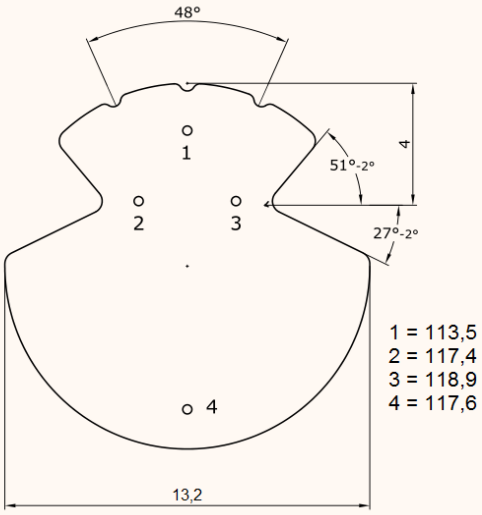
Specification of conductor // COMPARISON
Contact wire Cu Ag 0,10%, 120mm², Shape AC, High strength
Contact Wire CuMg 0,02%, 120mm², Shape AC,
Properties according to EN 50149:2012



120mm² Copper –Silver 0,1%



120mm² Copper Magnesium 0,02%

Technical data:

Composition Alloy		Silver	Magnesium
Alloy amount		0,1%	0,02%
Identification grooves		2	3
Nominal cross section (±3%)	[mm²]	120	120
Hardness test (Position 1-4)	[HB10/1]	107,5 – 115,1	113,5 – 118,9
Min. Tensile strength R_m	[N/mm²]	360	390
Min. Breaking load F_m	[kN]	41,9	45,4
Elongation at break A_{200}	[%]	3 – 8	3 – 8
Yield strength $R_{p0,2}$	[N/mm²]	>320	>340
Half-hard temperature	[°C]	>325	>350
Min. Electrical conductivity at 20°C	[m/Ωmm^2]	56,3	56,3
Min. Specific conductivity	[%IACS]	97	97
Max. Electrical resistance R	[Ω/km]	0,153	0,153
Mass per kilometer	[kg/km]	1070	1070