

Plumbing Compression Fitting Data Sheet



Lawton Compression Fittings	6mm - 54mm
Applications	Potable Water, Heating, Cooling
Market Segment	Domestic and Commercial

Material - Compression Regular Range	CW614N Brass
Material - Compression DZR Range	CW602N Brass
Joining Method	Compression
Maximum Operating Pressure	See Table on Page 2
Dimensions and Catalogue	See webpage
Installation Instructions	See webpage
Product Marking	Permanent marking, Lawton Logo, Size
Guarantee	75 Years (See website for full T&Cs)
Electrical Continuity	Yes
Form of Supply	Bags, Boxes
Inner Surface Quality	Clean and Smooth
Thread Specification	Male - ISO 7/EN 10226-1 Female - BS EN ISO 228
Assembly Instruction	See Webpage
Standard	EN 1254-2

Material Composition

Material	Cu (%)	Zn (%)	P (%)	Pb (%)	As (%)	Sn (%)	Fe (%)	Ni (%)	Al (%)	Mn (%)	Other (%)	Total Impurities (%)
CW024A	≥ 99.90	—	0.015 – 0.040	—	—	—	—	—	—	—	—	≤ 0.060 ^a
CW614N	57.0 – 59.0	Bal.	—	2.5 – 3.5	—	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.05	—	≤ 0.2	—
CW602N	61.0 – 63.0	Bal.	—	1.7 – 2.8	0.02 – 0.15	≤ 0.1	≤ 0.1	≤ 0.3	≤ 0.05	≤ 0.1	≤ 0.2	—

^a Excluding phosphorus and silver.

Physical Properties

Material	Melting Point / Range (°C)	Density (g/cm ³)	Thermal Conductivity (W/m·°C)	Thermal Expansion 20–300 °C (×10 ⁻⁶ /°C)	Electrical Conductivity (% IACS)	Modulus of Elasticity (GPa)
CW024A	1083	8.96	305	16.5	65	117
CW614N	875 – 890	8.50	120	21.0	28	110
CW602N	900 – 920	8.43	117	20.7	26	—

Maximum Operating Pressure

Nominal Size	Service Temperature		
	30°C	65°C	95°C
6mm to 15mm	25 bar	25 bar	16 bar
Over 15mm to 28mm	16 bar	13 bar	10 bar
Over 28mm to 54mm	16 bar	10 bar	7 bar

Torque Settings

Nominal Size	Torque (Nm)
6mm - 12mm	25
15mm	40
22mm	60
28mm	80
35mm	100
42mm	180
54mm	240

Tightening

After hand tightening the nut, turns required for a watertight joint:

Nominal Size	Turns
6mm - 28mm	1 Turn
35mm - 54mm	3/4 Turn

For more details, please refer to our website or contact us by e-mail at technical@lawtontubes.co.uk