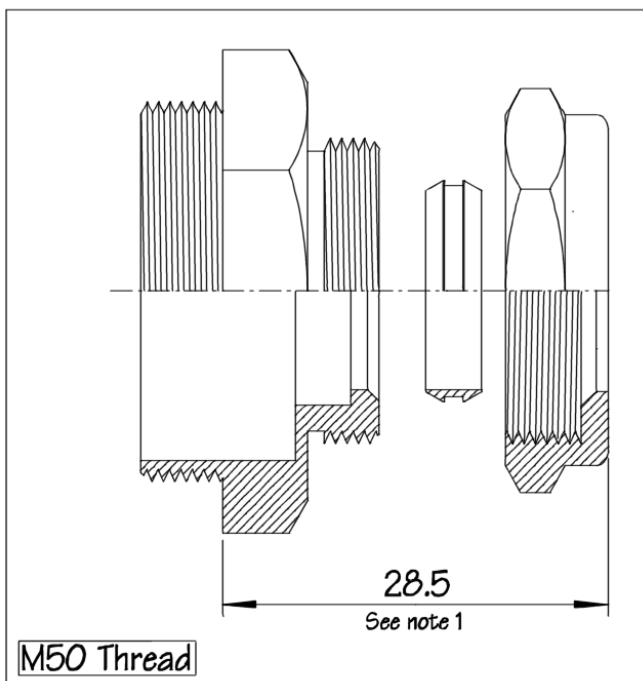
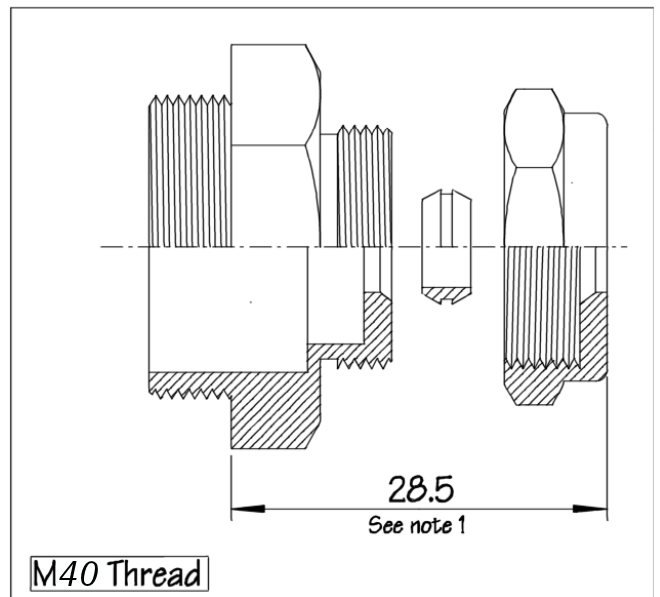
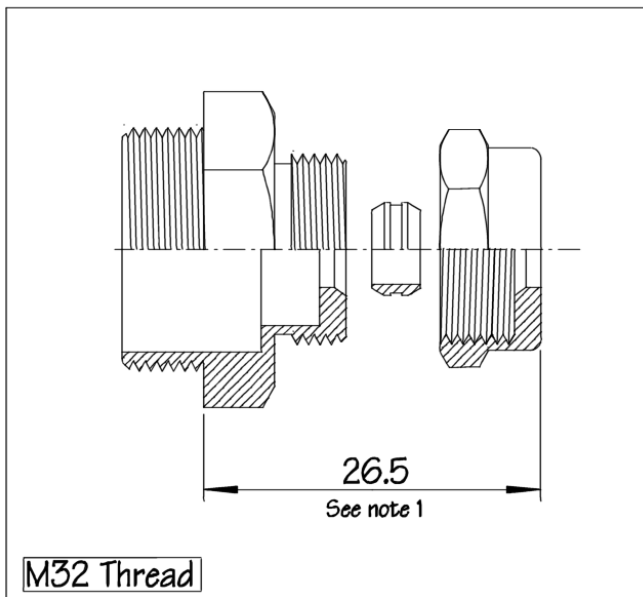
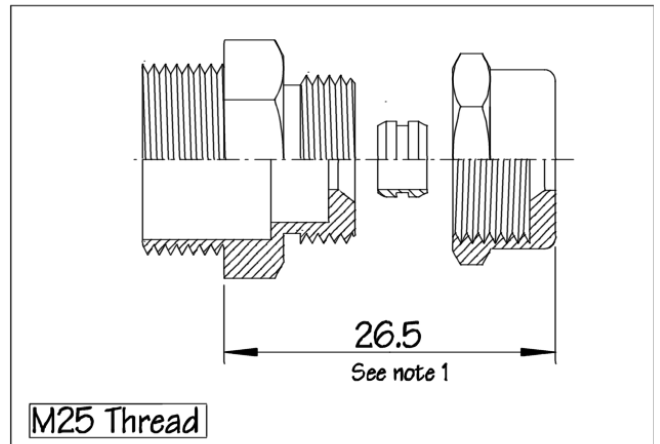
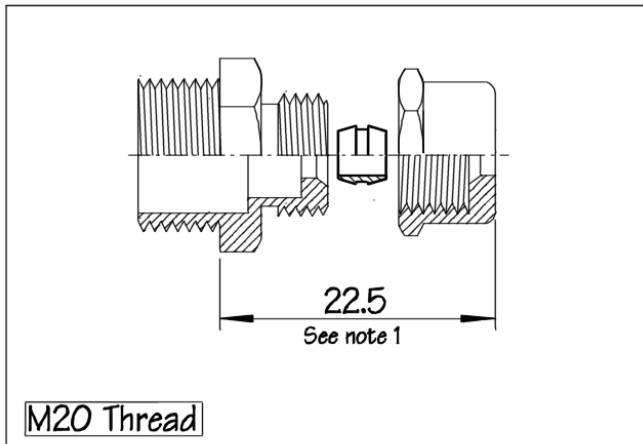




Technical Data Sheet TD B113

March 2009

TD B113 – Mineral Insulated Cable Glands



Fixing thread	Body hexagon (mm A/F)	Back nut hexagon (mm A/F)
M20 x 1.5	22.0/21.7	19.0/18.7
M25 x 1.5	27.0/26.7	24.0/23.7
M32 X 1.5	36.0/35.4	27.0/26.7
M40 x 1.5	46.0/45.4	36.0/35.4
M50 x 1.5	55.0/54.26	46.0/45.35

Note 1

Figure shown is approximate dimension when gland is assembled finger-tight on cable.

Note 2

Drawings are approx full size.

Mineral insulated cable glands

Glands are manufactured from brass conforming to BSEN 12164–CW14N–R430 and 5 thread sizes cover the whole cable size range

They comply with BSEN 60702:Part 2:2002

They conform to the ATEX Directive 94/9/EC (with the exception of 1H300)

They have been certified by SIRA for use in hazardous areas (flameproof, type of protection 'd') in Zones I and II, atmospheres IIa, IIb and IIc.

They are intended for use within the ambient temperature range of –20°C to +120°C

The certificate number is SIRA 03ATEX 11930X

Glands screwed into a compatible tapped entry will have an IP rating of IP 54. Using a thread sealant (eg Loctite 572) will increase this to IP67.

For boxes with a clearance hole the use of an AEI RLS sealing washer will give a rating of IP 66.

Tightening Torques

To ensure compliance with the certification, minimum tightening torques for the back nuts are recommended and these are shown in the table below.

These torques should also be used to ensure satisfactory earth continuity between the gland and the cable.

	Plain seal	Earth tail seal		Plain seal	Earth tail seal
Cable ref	Thread	Thread	Cable ref	Thread	Thread
2L1.0	M20	M20	2H1.5	M20	M20
2L1.5	M20	M20	2H2.5	M20	M20
2L2.5	M20	M20	2H4.0	M20	M25
2L4.0	M20	M20	2H6.0	M20	M25
3L1.0	M20	M20	2H10.0	M25	M32
3L1.5	M20	M20	2H16.0	M25	M40
3L2.5	M20	M20	2H25.0	M32	M40
4L1.0	M20	M20	3H1.5	M20	M20
4L1.5	M20	M20	3H2.5	M20	M25
4L2.5	M20	M20	3H4.0	M20	M25
7L1.5	M25	M25	3H6.0	M25	M25
7L2.5	M25	M25	3H10.0	M25	M32
			3H16.0	M25	M40
1H2.5	M20	M20	3H25.0	M40	M40
1H4.0	M20	M20	4H1.5	M20	M20
1H6.0	M20	M20	4H2.5	M20	M25
1H10.0	M20	M25	4H4.0	M25	M25
1H16.0	M20	M25	4H6.0	M25	M32
1H25.0	M20	M32	4H10.0	M25	M32
1H35.0	M20	M32	4H16.0	M32	M40
1H50.0	M25	M40	4H25.0	M40	M40
1H70.0	M25	–	7H1.5	M25	M25
1H95.0	M25	–	7H2.5	M25	M25
1H120.0	M32	–	12H2.5	M32	–
1H150.0	M32	–	19H1.5	M40	–
1H185.0	M32	–			
1H240.0	M40	–			
1H300.0	M50	–			

Health and Safety

When terminating mineral insulated cable care should be taken to prevent sharp metal edges from cutting the skin, or powdered insulation causing irritation by entering the eyes. Gloves and protective spectacles can be used to prevent this.

Tightening Torques	
Gland entry thread size	Tightening torque
Mm	Nm (min)
20	20
25	30
32	40
40	50
50	60



AEI Cables Ltd
 Durham Road, Birtley
 Co Durham DH32RA UK
 Tel (+44) (0)191 410 3111
 Fax (+44) (0)191 410 8312