



Compression Connector Range GENERIC

Product Codes: See tables below



1. Product Description

Compression connectors and reducers (7 Series only) are designed to provide a suitable joint and seal between lengths of polyethylene duct, for blowing purposes.

*** The performance data quoted assumes duct in-specification, fully relieved of any and all residual strain, and assumes correct installation practices (See 3.1)

2. Dimensions and Data

Straight connectors:

Duct Size*	Nut OD	Fitting Length	Tensile Load/kN see 4.1	Pressure ** Rating (PN)/bar see 4.2	Product Code
16 x 16	39	105mm	0.75	16	7891
20 x 20	48	121	1.1	16	4859
25 x 25	54	125	2.2	16	4286
32 x 32	64	145	3.6	16	3917P
35 x 35	64	145	3.6	16	4390
40 x 40	82	177	5.5	16	7895
50 x 50	96	201	7.4	16	4065
63 x 63	113	230	11.0	16	5361

* Some non-standard sizes are also available e.g., 37mm. Consult Emtelle.

** This pressure rating is for continuous, not short-term, use. Relates to connector only: See separate pressure rating data for sub-duct.

Reducers:

The following 'reducers' are also available. These are to connect ducts of different size.

Note that nut diameters, tensiles and pressures for these can be taken from the spec for each 'half' as shown in the table 1 above.

Duct Size	Fitting Length	Product Code	Duct Size	Fitting Length	Product Code
16 x 20	111	7897	25 x 63	187	7907
16 x 25	120	7898	32 x 40	155	7903
20 x 25	119	7899	32 x 50	173	7905
20 x 32	135	7900	32 x 63	199	7908
25 x 16	131	7898	40 x 50	182	7906
25 x 32	131	5363	40 x 63	209	7909
25 x 40	155	7902	50 x 63	215	7910
25 x 50	176	7904			



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Repair Slip Couplers:

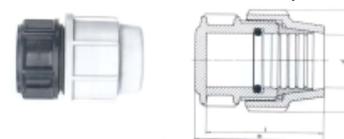
These are used for duct repair and for to allow the Fibreflow tube bundle to enter into access chambers.

Duct Size*	Nut OD	Fitting Length In mm	Tensile Load/kN see 4.1	Pressure ** Rating (PN)/bar see 4.2	Product Code
16 x 16	39	105	0.75	16	
20 x 20	48	121	1.1	16	
25 x 25	54	125	2.2	16	9567
32 x 32	64	145	3.6	16	9876
35 x 35	64	145	3.6	16	
40 x 40	82	177	5.5	16	7858
50 x 50	96	201	7.4	16	4766
63 x 63	113	230	11.0	16	

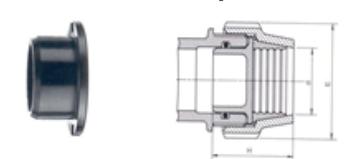
End Cap and Blanking Plugs:

These are used for permanent (end cap) and temporary (plug) end sealing of ducting systems to prevent water and dirt ingress. The cap is self-contained. The plug is fitted inside an existing connector or reducer. Caps and plugs are available in sizes shown in the Repair Slip Coupler table. Other sizes are available on request.

Duct Size*	Pressure ** Rating (PN)/bar see 4.2	End Cap product code	Blanking Plug product code
20	16		
25	16	70523	
32	16	70236	
35	16		
40	16	7913	
50	16	70237	4765
63	16		



End Cap



Blanking Plug

3. Installation

3.1. Fitting

a) Sizes up to 40mm:

Clean the cut ends of the duct, and ensure the surface is undamaged and free of any and all surface contaminants including dirt or lubricants, to ensure a good pressure seal on the O-ring seal. If a cutter 3A is used, there is no need to chamfer the duct. Slacken off the nuts to the last thread. Use no lubricant. Insert the duct with a screwing action as far as the internal shoulder, then fully tighten the screw nuts by hand.

b) 50mm and 63mm:

Assemble as directed above, but the light use of silicone lubricant may aid insertion into these large fittings. Fully tighten using correct hand tools. Some thread may still be visible on the body after tightening.

3.2. Removal

Ensure the duct is not pressurised. Unscrew the nut and pull out the duct. This operation can be repeated on undamaged duct without replacing O-rings but split rings may need replacement if the teeth become blunted.

4. Performance

4.1 Tensile Grip:

The pull-out tensile failure load between two lengths of correct size duct for a correctly fitted connector is shown in the table above. Test method ISO 14236.

4.2 Pressure

Each size of connector fitted to clean correct sized duct shall withstand an internal pressure of 1.5 x rated pressure (i.e. 1.5 PN) for 30 minutes at both 0°C and +40°C. Test method ISO 12092.

4.3 Crush

Neither the body nor the nuts shall split or fail if the diameter is compressed and reduced by 20% at room temperature. Test speed 50mm/min. Test method IEC-60794-1-2-E3

4.4 Impact

Screw on both nuts so they are not loose. Place the ribbed area of the nut into the impact zone. Use a flat tup of 50mm diameter. The connector body and nut shall survive at 23 ±2°C three 15J impacts*, with no cracks. Minor damage to the nut ribs is permitted. (*eg 15N from height of 1m) Test method IEC-60794-1-2-E4

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