



## PRODUCT DESCRIPTION

Specification for the Caladen clear push fit straight connector, end stop and size-change/reducer connector. The fittings are designed to join microduct by being pushed onto a clean cut duct/tube end.

A seal is made with internal O-rings.

The design of the connector, which incorporates internal steel teeth, prevents accidental separation of the connector from the microduct once installed.

Removal of the duct is achieved by pushing the green collet inwards. No tools are required for the insertion or removal of the fitting from the duct.

## CONNECTOR RANGE

Caladen Part Number	Straight connectors (same duct each end) mm	Bore Size Straight Connectors mm
9916	3	2.1
9917	4	2.5
9918	5	3.5
70193	7	3.5
5333	7	4
9919	7	5.5
9772	8	3.5
9920	8	6
9921	10	8
9922	12	10
9923	14	10
9924	16	12
5518	18	14
5520	20	16

Caladen Part Number	End Stops mm
9932	3
9933	4
9934	5
9935	7
9936	8
9937	10
9938	12
9939	14
70153	16
5519	18
5525	20

Caladen Part Number	Reducer connectors (to connect unequal duct sizes) mm	Bore Size Reducer Connectors mm
9925	5x3	3.5-2.1
9926	5x3	2.1
71649	5x4	3.5-2.1
70407	7x3	3.5-2.1
72059	7x4	3.5
70031	7x5	5.5-3.5
70117	8x3	3.5-2.1
9927	8x5	3.5
72024	8x7	3.5
70032	10x5	3.5
70033	10x7	5.5
9928	10x8	5.5
70034	12x5	3.5
9929	12x7	10-5.5
9930	12x10	10-8
70035	14x10	10-8
9931	14x12	12-10
70036	16x12	12-10
70037	18x16	12
5516	20x16	12





MATERIALS



Component	Material
Body	Clear PC
Collet	POM
Grip Ring	Stainless Steel
O-Ring	Nitrile Rubber

TEMPERATURE IN OPERATION



Minimum: -40°C  
Maximum: +65°C  
to BS-EN 50411-2-8:2009

PRESSURE IN OPERATION



Continuous up to 16 bar  
Burst Pressure exceeds 25 bar  
Pressure <8mm at Temps -10 to 40°C 15 Bar  
Pressure <8mm at Temps 40 to 65°C 15 Bar  
Pressure >10mm at Temps -10 to 40°C 15 Bar  
Pressure >10mm at Temps 40 to 65°C 10 Bar

LEAKAGE UNDER PRESSURE

0.4 bar: 0.01 ml/min or better  
0.7 bar: 0.01 ml/min or better  
8 bar: 1 ml/min or better  
16 bar: 1 ml/min or better

Glow wire test:

Glow wire test: IEC60695-2-11  
Test: Formal  
Result: Satisfactorily withstood the glow-wire test at a temp of 750°C

WATER INGRESS

Zero ingress after 15 mins @ 40kpa water over pressure @ 23°C. EN 61300-2-38 Method A Rated @ IP68

INSERTION FORCE

12mm and below 50N  
14mm and above 120N  
to BS EN 50411-2-8:2009

RETENTION FORCE

3mm: 25N  
5mm: 55N  
8mm to 16mm: 125N  
to BS EN 50411-2-8:2009





Summary Results of Testing to BS EN 50411-2-8:2009

Test	Result
Vibration (sinusoidal)	PASS visual and sealing performance test
Microduct Retention	PASS visual and sealing performance test
Microduct Bending	PASS visual and sealing performance test
Torsion	PASS visual and sealing performance test
Crush Resistance	PASS visual and sealing performance test
Impact Resistance	PASS visual and sealing performance test
Microduct Re-Entry	PASS visual and sealing performance test
Temperature Cycling	PASS visual and sealing performance test
Salt Mist	PASS visual and sealing performance test
Insertion Force	PASS visual and sealing performance test

