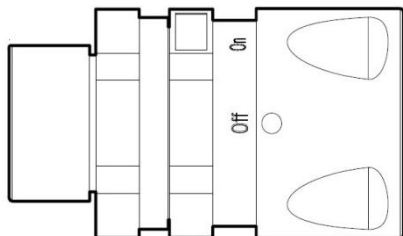


## LGP straight connectors

### Swiveling Metal thread

Item codes : from 666773 to 666809



#### SUMMARY

#### PAGES

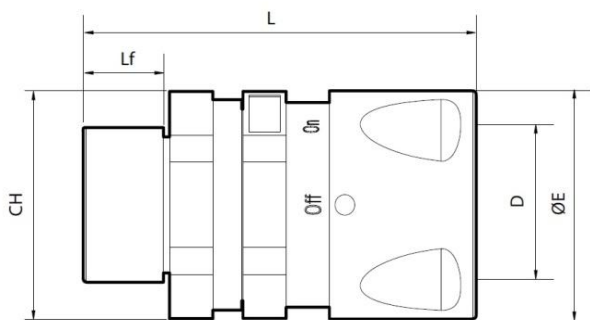
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## 1. DESCRIPTION AND APPLICATIONS

Straight swiveling male patented connector with metal thread made of high quality, halogen free and flame retardant polyamide. Suitable for most applications it ensures the protection of cables and connections with high mechanical and thermal performances, high resistance to traction and torque and a good resistance to vibration and chemicals. Used together with LGP conduits and gaskets it guarantees an IP68 protection index with a good tightening and a fast patented coupling system. It's ideal for most environments both in static and dynamic applications.

## 2. DIMENSIONS AND COMPATIBILITY

### Dimensions and packaging:



Item BLACK Isometric	NW	THR	Dimensions [mm]				Pack [pcs]
			CH	L	Lf	ØE	
666773	7	M12	22,0	53,0	10,0	24,0	40
666774	8	M16	24,0	53,0	10,0	26,0	40
666775	10	M16	22,0	53,0	10,0	24,0	40
666776	12	M16	25,0	57,0	12,0	30,5	30
666777	12	M20	25,0	57,0	12,0	30,5	30
666778	15	M20	29,0	60,0	14,0	34,5	25
666779	17	M20	30,0	60,0	14,0	32,5	25
666780	17	M25	30,0	60,0	14,0	32,5	25
666781	19	M25	34,0	63,0	14,0	39,5	25
666782	23	M25	38,0	63,0	14,0	41,0	20

Item BLACK Isometric	NW	THR	Dimensions [mm]				Pack [pcs]
			CH	L	Lf	ØE	
666783	23	M32	38,0	63,0	14,0	41,0	20
666784	25	M32	41,0	66,0	14,0	47,0	15
666785	29	M32	45,0	66,0	14,0	47,0	15
666786	33	M40	50,0	70,0	14,0	55,0	10
666787	36	M40	55,0	70,0	14,0	56,0	10
666788	36	M50	55,0	70,0	14,0	56,0	10
666789	42	M50	60,0	78,0	14,0	65,0	6
666790	48	M50	65,0	78,0	16,0	69,0	6
666791	48	M63	65,0	78,0	16,0	69,0	6

According to UNI 5542-65

Item BLACK PG	N W	THR	Dimensions [mm]				Pack [pcs]
			CH	L	Lf	ØE	
666792	7	PG7	22,0	53,0	10,0	24,0	40
666793	8	PG9	24,0	53,0	10,0	26,0	40
666794	10	PG9	22,0	53,0	10,0	24,0	40
666795	12	PG11	25,0	57,0	12,0	30,5	30
666796	12	PG13,5	25,0	57,0	12,0	30,5	30
666797	15	PG16	29,0	60,0	14,0	34,5	25
666798	17	PG13,5	30,0	60,0	14,0	32,5	25
666799	17	PG16	30,0	60,0	14,0	32,5	25
666800	19	PG21	34,0	63,0	14,0	39,5	25
666801	23	PG21	38,0	63,0	14,0	41,0	20
666802	25	PG29	41,0	66,0	14,0	47,0	15
666803	29	PG29	45,0	66,0	14,0	47,0	15
666804	33	PG36	50,0	70,0	14,0	55,0	10
666805	36	PG36	55,0	70,0	14,0	56,0	10
666806	42	PG42	60,0	78,0	16,0	65,0	6
666807	42	PG48	60,0	78,0	16,0	65,0	6
666808	48	PG42	65,0	78,0	16,0	69,0	6
666809	48	PG48	65,0	78,0	16,0	69,0	6

According to DIN 40430.

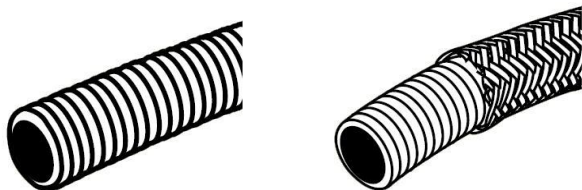
# LGP straight connectors

Item codes : from 666773 to 666809

## Swiveling Metal thread

### Compatibility:

LGP conduits Standard series, Heavy series, Robotic series, Steel braided series and all the accessories LGP series.



### Patent:

All the LGP connectors have a patented quick system to be coupled with the conduits. The patented quick system works without any tools and ensures a protection index IP68 (used with LGP gaskets).



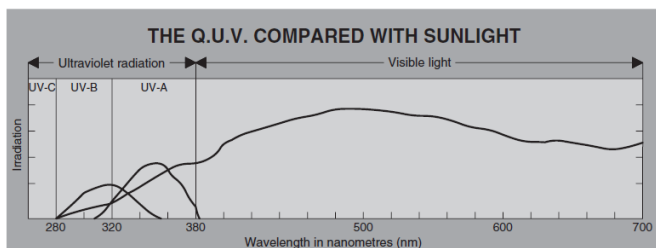
### 3. TECHNICAL FEATURES

#### Raw material:

Polyamide PA6.6 [UL94-V0] halogen free and flame retardant with thread in nickel plated brass UNI EN 12164 CW 614N

#### Resistance to UV rays:

Represents the resistance to the degradation of mechanical performance caused by exposure to UV radiation contained in sunlight. All RTA systems have been subjected to the Q.U.V. test which, with exposure cycles of 4+4 hours, simulates the continued alternation of light and condensation. The connectors of LGP series are not recommended for long exposition to UV radiation even if they have a good resistance to UV rays: all LGP connectors are indicated for internal uses or covered uses.



#### Operating temperature:

Minimum: -45° C / -49° F

Maximum: +105° C / +221° F

#### Heat resistance:

Glow wire test: 850° C / 1562° F

#### Self-extinguishing:

Does not propagate flames in according to IEC 61386.

#### IP protection index:

IP66 with LGP connectors.

IP68 with LGP connectors and gaskets.

1 <sup>st</sup> digit IP	
Protection against the ingress of solid bodies	
0	No protection
1	Protection against solid bodies larger than 50 mm (e.g.: accidental contact)
2	Protection against solid bodies larger than 12 mm (e.g.: finger)
3	Protection against solid bodies larger than 2.5 mm
4	Protection against solid bodies larger than 1 mm
5	Protection against dust
6	Complete protection against dust

2 <sup>nd</sup> digit IP	
Protection against the ingress of liquids	
2	Protection against drops of water falling at up to 15° from the vertical
3	Protection against drops of rain water at up to 60° from the vertical
4	Protection against sprays of water from all directions
5	Protection against jets of water from all directions
6	Protection against jets of water of similar force to heavy seas
7	Protection against the effects of immersion
8	Protection against prolonged effects of immersion under pressure

### Thread types and dimensions:

ISO THREAD (EN 60423)							
				Dimensions in mm			
Threads	Pitch	Outside diam.	Medium diam.	Core diam.	Outside diam.	Medium diam.	Inside diam.
Thread size	P	d	d <sub>2</sub>	d <sub>1</sub>	D	D <sub>2</sub>	D <sub>1</sub>
M12	1,5	11,968	10,994	10,128	12	11,026	10,376
M16	1,5	15,968	14,994	14,128	16	15,026	14,376
M20	1,5	19,968	18,994	18,128	20	19,026	18,376
M25	1,5	24,968	23,994	23,128	25	24,026	23,376
M32	1,5	31,968	30,994	30,128	32	31,026	30,376
M40	1,5	39,968	38,994	38,128	40	39,026	38,376
M50	1,5	49,968	48,994	48,128	50	49,026	48,376
M63	1,5	62,968	61,994	61,128	63	62,026	61,376

PG THREAD (DIN 40430)					
				Dimensions in mm 1" = 25,4 mm	
Thread size	Outside diam.	Medium diam.	Core diam.	Pitch	t.p.i. (threads/inch)
	d = D	d <sub>2</sub> = D <sub>2</sub>	d <sub>1</sub> = D <sub>1</sub>	P	z
PG 7	12,50	11,89	11,28	1,27	20
PG 9	15,20	14,53	13,86	1,41	18
PG 11	18,60	17,93	17,26	1,41	18
PG 13,5	20,40	19,73	19,06	1,41	18
PG 16	22,50	21,83	21,16	1,41	18
PG 21	28,30	27,54	26,78	1,588	16
PG 29	37,00	36,24	35,48	1,588	16
PG 36	47,00	46,24	45,48	1,588	16
PG 42	54,00	53,24	52,48	1,588	16
PG 48	59,30	58,54	57,78	1,588	16

## Swiveling Metal thread

### 4. ENVIRONMENTAL PROFILE

All the items identified in this technical sheet respect in terms of concentration of substances and raw materials the European legislations about dangerous and forbidden substances and chemical preparations.



All items identified in this technical sheet are constituted by raw materials completely recyclable.

### 5. CONFORMITY AND APPROVALS



All the items identified in this technical sheet are compliant to all the requirements and the regulations currently in force in the European Union about safety, health and environmental issues..



LAPI mark: items from 666773 to 666809

For technical documentation, test reports, commercial information or any other needs please refer to the local LEGRAND office