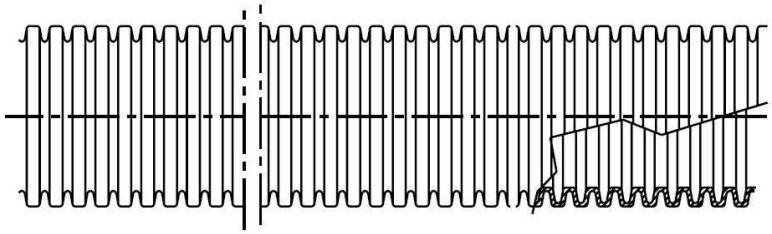
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LGP Standard flexible conduits

Item codes : from 666400 to 666421



SUMMARY PAGES

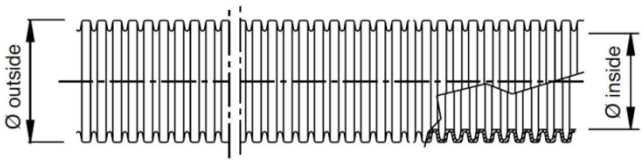
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1. DESCRIPTION AND APPLICATIONS

Flexible corrugated conduit made of high quality, halogen free and flame retardant polyamide. Suitable for most applications it combines good mechanical and thermal performances with a good flexibility and geometrical adaptation. Ideal for static or dynamic applications it ensures the protection of cable and guarantees a good resistance to simulated weathering and vibrations. It is used with the patented connectors which ensures a good tightening with an IP68 protection and a fast coupling system. It's the appropriate solution for energy, signal or power distribution.

2. DIMENSIONS AND COMPATIBILITY

Dimensions and packaging:



Item GREY	Nominal diameter	Internal diameter [mm]	External diameter [mm]	Curvature radius* [mm]	Pack [m]
666400	7	7,0	10,0	50	50
666401	10	10,0	13,0	60	50
666402	12	12,0	16,0	70	50
666403	17	17,0	21,0	95	50
666404	23	22,5	29,0	135	50
666405	29	28,0	35,0	170	25
666406	36	35,0	43,0	210	25
666407	48	47,0	55,0	290	25

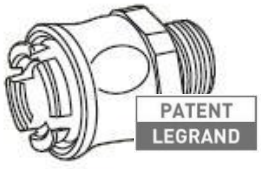
* Approximate value: for more information contact Legrand technical offices

Item BLACK	Nominal diameter	Internal diameter [mm]	External diameter [mm]	Curvature radius* [mm]	Pack [m]
666408	7	7,0	10,0	50	50
666409	8	8,0	12,0	55	50
666410	10	10,0	13,0	60	50
666411	12	12,0	16,0	70	50
666412	15	15,0	20,0	80	50
666413	17	17,0	21,0	95	50
666414	19	19,0	25,0	120	50
666415	23	22,5	29,0	135	50
666416	25	25,0	32,0	150	25
666417	29	28,0	35,0	170	25
666418	33	33,0	40,0	190	25
666419	36	35,0	43,0	210	25
666420	42	42,0	50,0	240	25
666421	48	47,0	55,0	290	25

* Approximate value: for more information contact Legrand technical offices

Compatibility:

Connectors, fittings and accessories LGP series.





3. TECHNICAL FEATURES

Raw material:

Polyamide PA6.6 [UL94-V2] halogen free and flame retardant.

IEC 61386 classification:

2	4	4	3

(2 2 2 3 for items 666400/666408/66409)

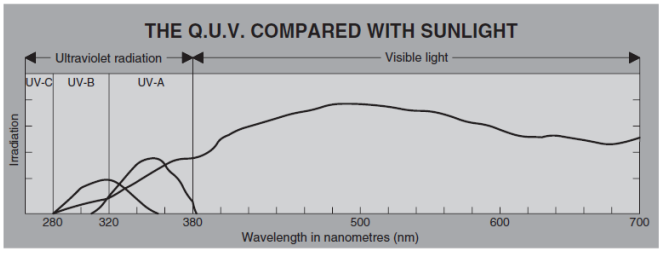
LGP Standard flexible conduits

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1st figure	2nd figure	3rd figure	4th figure
Resistance to compression	Resistance to shock	Maximum installation and normal use temperature	Minimum transport, installation and normal use temperature
1 = very slight 125 N	1 = very slight 0.5 J	1 = +5 °C	1 = +60 °C
2 = slight 320 N	2 = slight 1 J	2 = -5 °C	2 = +90 °C
3 = medium 750 N	3 = medium 2 J	3 = -15 °C	3 = +105 °C
4 = strong 1250 N	4 = strong 6 J	4 = -25 °C	4 = +120 °C
5 = very strong 4000 N	5 = very strong 20 J	5 = -45 °C	5 = +150 °C
			6 = +250 °C
			7 = +400 °C

Resistance to UV rays:

Represents the resistance to the degradation of mechanical performance caused by exposure to UV radiation contained in sunlight. All RTA conduit 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 conduits of LGP series are not recommended for long exposition to UV radiation even if they have a good resistance to UV rays: all LGP conduits are indicated for internal uses or covered uses.



Resistance to chemical agents:

Represents the resistance to chemicals or external agents. The used test method consist of: immersion of the items under test in the chemical substance for 24 hours; once they were dried and conditioned at a constant temperature for other 24 hours, they were checked with the following examinations:

- Visual inspection to check the integrity
- Mechanical bending test
- Mechanical compression test
- IP protection test

Industrial chemical agents	Resistance*
Unleaded petrol	●
Industrial detergent	●
Diesel fuel	●
Lubricant oil	●
Emulsifier solution	●
Washing solvent	●

* resistances to chemicals are indicative. For any specific application or environment please contact Legrand technical offices

● Good resistance
● Medium resistance
● No resistance

Operating temperature:

Minimum: -25° C / -13° F
Maximum: +105° C / +221° F

Heat resistance:

Glow wire test: 750° C / 1382° F

Self-extinguishing:

Does not propagate flames in according to IEC 61386.

IP protection index:

IP65 with LGP series connectors.
IP68 with LGP series connectors and gaskets.

1st digit IP	Protection against the ingress of solid bodies
	0 No protection
Ø 50 mm	1 Protection against solid bodies larger than 50 mm (e.g.: accidental contact)
Ø 12.5 mm	2 Protection against solid bodies larger than 12 mm (e.g.: finger)
Ø 2.5 mm	3 Protection against solid bodies larger than 2.5 mm
Ø 1 mm	4 Protection against solid bodies larger than 1 mm
	5 Protection against dust
	6 Complete protection against dust

2nd digit IP	Protection against the ingress of liquids
15°	2 Protection against drops of water falling at up to 15° from the vertical
60°	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
1 m / 0.15 m	7 Protection against the effects of immersion
	8 Protection against prolonged effects of immersion under pressure

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.

PA

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

5. CONFORMITY AND APPROVALS

CE

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.



IMQ mark: items from 666400 to 666421.



UL Recognized mark: items from 666411 to 666421.



RINA mark: items from 666400 to 666421.

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