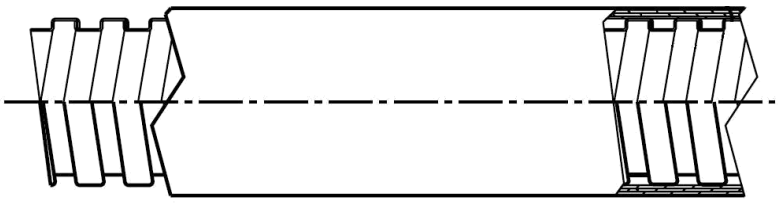
Bticino S.p.A.
Viale Borri, 231 – 21100 Varese (VA) – ITALY
www.bticino.com – www.legrand.com

PN flexible conduits

Item codes: from 387489 to 387499 and from 387712 to 387718



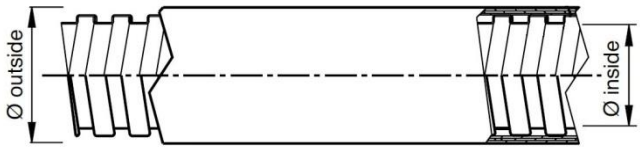
SUMMARY PAGES

1. DESCRIPTION AND APPLICATIONS

Galvanized steel flexible conduit with single hamming structure covered with plain PVC. Suitable for most static or dynamic applications it has a good flexibility and very good mechanical and thermal performances. It ensures the protection of cable and guarantees the insulation of electrical connections. It's the ideal solution for energy, signal or power distribution in most environments.

2. DIMENSIONS AND COMPATIBILITY

Dimensions and packaging:



Item GREY	Nominal diameter	Internal diameter [mm]	External diameter [mm]	Curvature radius* [mm]	Pack [m]
387489	8	8,0	13,0	80	50
387490	10	10,0	15,5	100	50
387491	12	12,0	18,0	120	50
387492	16	15,5	21,5	160	50
387493	21	20,5	27,0	210	25
387494	27	26,5	34,0	270	25
387495	35	34,5	42,5	350	25
387496	40	39,5	48,5	400	25
387497	51	50,5	61,0	520	25

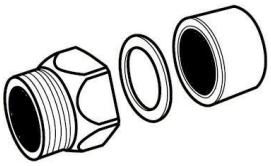
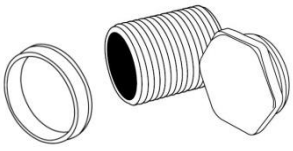
* Approximate value: for more information contact Legrand technical offices

Item BLACK	Nominal diameter	Internal diameter [mm]	External diameter [mm]	Curvature radius* [mm]	Pack [m]
387498	8	8,0	13,0	80	50
387499	10	10,0	15,5	100	50
387712	12	12,0	18,0	120	50
387713	16	15,5	21,5	160	50
387714	21	20,5	27,0	210	25
387715	27	26,5	34,0	270	25
387716	35	34,5	42,5	350	25
387717	40	39,5	48,5	400	25
387718	51	50,5	61,0	520	25

* Approximate value: for more information contact Legrand technical offices

Compatibility:

Connectors, fittings and accessories 200METAL series, kit SILOK, metal accessories and equipments.

3. TECHNICAL FEATURES

Raw material:

Hot-dip galvanized steel (Fe P01-P02) pliable conduit covered with plain PVC.

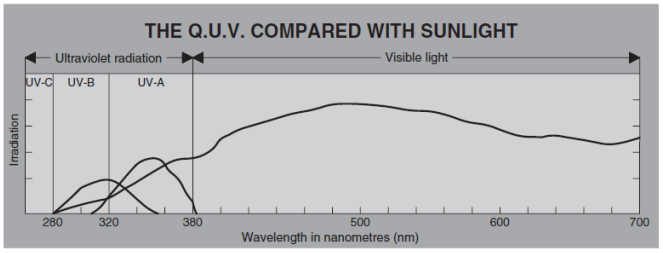
IEC 61386 classification:

3	3	3	1

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 PN 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 consists 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: -15° C / +5° F
Maximum: +60° C / +140° F

Self-extinguishing:

Does not propagate flames in according to IEC 61386.

Electric properties:

Electric continuity guaranteed.

IP protection index:

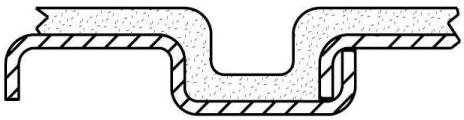
IP65 with 2000METAL series connectors.

1st 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

2nd 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

Conduit structure:

Single hemming structure.



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.

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 387490 to 387497, 387499 and from 387712 to 387718.

UL Recognized mark: items from 387490 to 387497, 387499 and from 387712 to 387718.

RINA mark: items from 387490 to 387497, 387499 and from 387712 to 387718.

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