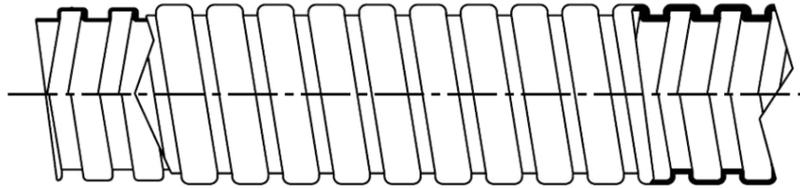


## FA flexible conduits

Item codes : from 387420 to 387437



### SUMMARY

### PAGES

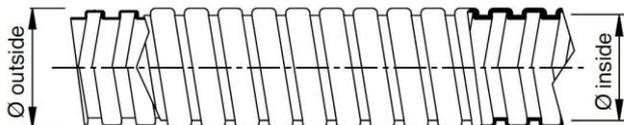
- 1. Description and applications ..... 1
- 2. Dimensions and compatibility ..... 1
- 3. Technical features ..... 1
- 4. Environmental profile ..... 2
- 5. Conformity and approvals ..... 2

## 1. DESCRIPTION AND APPLICATIONS

Galvanized steel flexible conduit with single hemming structure, covered with spiral PVC. It's a good solution for static or dynamic applications it ensures the protection of cable and guarantees good mechanical and thermal performances. Used together with 2000METAL series connectors and sleeves it guarantees an IP67 protection index. It's ideal for most application.

## 2. DIMENSIONS AND COMPATIBILITY

### Dimensions and packaging:



Item GREY	Nominal diameter	Internal diameter [mm]	External diameter [mm]	Curvature radius* [mm]	Pack [m]
387420	8	8,0	12,0	40	50
387421	10	10,0	14,0	60	50
387422	12	12,0	15,5	80	50
387423	16	15,5	19,5	90	50
387424	21	20,5	24,5	110	50
387425	27	26,5	31,5	130	25
387426	35	34,5	40,0	170	25
387427	40	39,5	45,0	230	25
387428	51	50,5	56,0	270	25

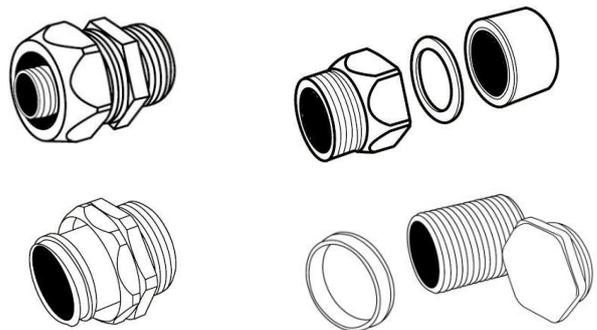
\* Approximate value: for more information contact Legrand technical offices

Item BLACK	Nominal diameter	Internal diameter [mm]	External diameter [mm]	Curvature radius* [mm]	Pack [m]
387429	8	8,0	12,0	40	50
387430	10	10,0	14,0	60	50
387431	12	12,0	15,5	80	50
387432	16	15,5	19,5	90	50
387433	21	20,5	24,5	110	50
387434	27	26,5	31,5	130	25
387435	35	34,5	40,0	170	25
387436	40	39,5	45,0	230	25
387437	51	50,5	56,0	270	25

\* Approximate value: for more information contact Legrand technical offices

### Compatibility:

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



## 3. TECHNICAL FEATURES

### Raw material:

Hot-dip galvanized steel (Fe P01-P02) flexible conduit covered with spiral PVC.

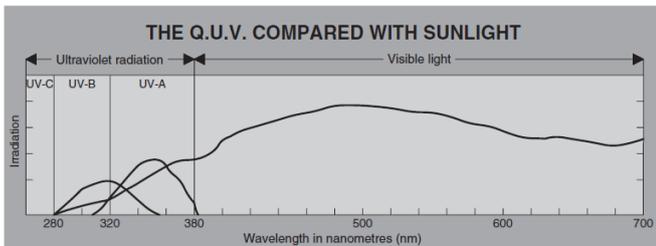
### IEC 61386 classification:



1 <sup>st</sup> figure		2 <sup>nd</sup> figure		3 <sup>rd</sup> figure		4 <sup>th</sup> 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 FA 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: -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.

IP67 with 2000METAL series connectors and sleeves.

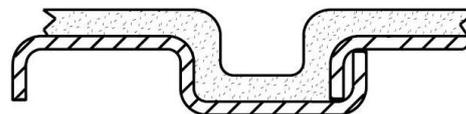
IP42 with MG Metal series connector

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

### 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



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.

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