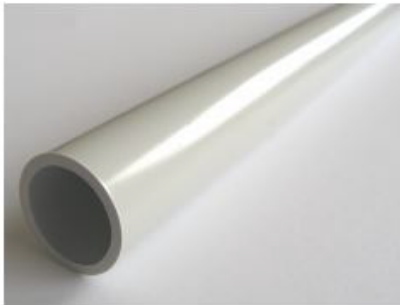


Rigid conduits IRL 3321 Export range

Cat. No(s): 6 514 16/20/25/32/40



1. USE

LEGRAND EXPORT rigid conduits with straight circular section which profile is corrugated, insulating and elastic across the section, used for electrical installation. The "conduit system" includes conduits and accessories.

2. RANGE

Rigid conduits with integrated coupling
 IRL Grey : Non Flame-propagating

∅	16	20	25	32	40
Roll (m)	30	30	30	15	15
Cat. nos	6 514 16	6 514 20	6 514 25	6 514 32	6 514 40

3. INSTALLATION

Installation according to UTE C 15-520 "guide".

■ 3.1 Dimensions of conduits :

The internal dimensions of the conduits and accessories must allow pulling easily wires and cables after installing the system.

This rule is fulfilled if the sum of insulated wires section (Sn), is inferior to 1/3 of the internal section of the conduit (Si)

$$\sum S_n < S_i / 3$$

∅	1/3 of the internal section Si / 3 (mm ²)
16	44
20	75
25	120
32	202
40	328

■ 3.2 Methods of installation guideline (refer to local standard) :

After construction	EMBEDDED IN STRUCTURE		SURFACE MOUNTED	
	Before construction		Outside	Inside
	Floors	Walls		
Allowed	Not allowed	Allowed	Allowed	Allowed

4. DIMENSIONS & WEIGHTS

■ 4.1 Conduit

∅	16	20	25	32	40
Outside ∅ (mm)	+0 16 - 0,3	+0 20 - 0,3	+0 25 - 0,4	+0 32 - 0,4	+0 40 - 0,4
Minimum internal ∅ (mm)	13	16,9	21,4	27,8	35,4

■ 4.2 Packaging

∅	quantity (m)	Width (mm)	Height (mm)	Lenght (mm)	Size (m3)	Gross Weight (kg)	Net Weight (kg)
16	30	75	55	3 000	0,01238	2,627	2,610
20	30	95	70	3 000	0,01995	3,557	3,540
25	30	115	85	3 000	0,02933	4,727	4,710
32	15	110	70	3 000	0,02310	3,368	3,360
40	15	77	120	3 000	0,02772	4,583	4,575

■ 4.3 Palets

∅	quantity (m)	Width (mm)	Height (mm)	Lenght (mm)	Size (m3)	Gross Weight (kg)	Net Weight (kg)
16	2730	780	470	3 000	1,09980	243,110	237,510
20	2100	780	545	3 000	1,27530	253,400	247,800
25	960	780	430	3 000	1,00620	156,320	150,720
32	720	780	495	3 000	1,15830	166,880	161,280
40	540	780	545	3 000	1,27530	170,300	164,700

5. GENERAL CHARACTERISTICS

■ 5.1 Mechanical characteristics :

- Index of protection : I.P. 68 (conduit only)
- Compression: 750 Newtons at + 23° C
- Impact : 2 joules at - 5° C
- Dielectric Strength : 2 000 Volts under 50 Hertz during 15 minutes
- Resistance greater or equal to 100 MΩ/m under 500 Vcc
- Very good resistance to acids, bases and to salines solutions
- Sensitive to aromatic hydrocarbons (eg. Benzene) and ketones (eg. Acetone)
- Temperature performances :
Transport, use during installation :
≥ - 5 degrés C.
≤ + 60 degrés C

Bending radius during tests

∅	16	20	25
Mini bending radius (mm)	48	60	75

5. GENERAL CHARACTERISTICS (cont.)

■ 5.2 Mecanical characteristics of the system :

- Index of protection : I.P. 44 conduit + coupling
I.P. 44 conduit + bends
I.P. 44 conduit + flexible accessory bends
I.P. 40 conduit + elbows
I.P. 40 conduit + tees
- Impact : 2 joules at -5° C
- Glow wire test: 750° C.

■ 5.3 Material characteristics :

Conduit, bends and flexible accessory bends : Polyvinyl chloride (PVC)
Coupling, tees and elbows: Additived polyolefines
Color : Grey RAL 7035

■ 5.4 Others characteristics :

- We can paint the system and accessories with specific paint :
- Paint glycérophalique
 - Paint acrylique

6. STANDARDS & APPROVALS

European norms :

-EN 61386-1

-EN 61386-21

Normative marking on the conduits (at least every 3m)

Normative marking on each accessory.

Marking sample on conduits :

Date / hour VD Ø NF-USE (ou le logo NF) Ø 3321 EN 61386-21 LEGRAND 603 CE code barre*

***Ø16, 20, 25 et 32**

Marking sample on accessory :

NF-USE LEGRAND

Ø 603

7. ACCESSORIES

7.1 System accessories

Designations	Use	References
Coupling 16	Link between two conduits of Ø 16	06001
Coupling 20	Link between two conduits of Ø 20	06002
Coupling 25	Link between two conduits of Ø 25	06003
Coupling 32	Link between two conduits of Ø 32	06004
Coupling 40	Link between two conduits of Ø 40	06005
Coupling 50	Link between two conduits of Ø 50	06006
Coupling 63	Link between two conduits of Ø 63	06007
Reducers 20/16	Link between a Ø 16 to Ø 20 conduits	06011
Reducers 25/20	Link between a Ø 20 to Ø 25 conduits	06012
Bends 16	Change of direction Ø 16	06041
Bends 20	Change of direction Ø 20	06042
Bends 25	Change of direction Ø 25	06043
Bends 32	Change of direction Ø 32	06044
Bends 40	Change of direction Ø 40	06045
Bends 50	Change of direction Ø 50	06046
Bends 63	Change of direction Ø 63	06047
Coupling 16	Link between two conduits of Ø 16	06101
Coupling 20	Link between two conduits of Ø 20	06102
Coupling 25	Link between two conduits of Ø 25	06103
Reducers 20/16	Link between a Ø 16 to Ø 20 conduits	06111
Reducers 25/20	Link between a Ø 20 to Ø 25 conduits	06112
Elbows 16	Change direction Ø 16	06121
Elbows 20	Change direction Ø 20	06122
Elbows 25	Change direction Ø 25	06123
Tees 16	To join conduits together and to change direction Ø 16	06131
Tees 20	To join conduits together and to change direction Ø 20	06132
Coupling 16	Link between two conduits of Ø 16	06201
Coupling 20	Link between two conduits of Ø 20	06202
Coupling 25	Link between two conduits of Ø 25	06203
Coupling 32	Link between two conduits of Ø 32	06204

7. ACCESSORIES (cont.)

Reducers 20/16	Link between a Ø 16 to Ø 20 conduits	06212
Reducers 25/20	Link between a Ø 20 to Ø 25 conduits	06214
Elbows 16	Change direction Ø 16	06222
Elbows 20	Change direction Ø 20	06223
Elbows 25	Change direction Ø 25	06224
Tees 16	To join conduits together and to change direction Ø 16	06231
Tees 20	To join conduits together and to change direction Ø 20	06232
Tees 25	To join conduits together and to change direction Ø 25	06233
Reducers 25/20	Link between a Ø 20 to Ø 25 conduits	6 516 09
Elbows 16	Change direction Ø 16	6 516 11
Elbows 20	Change direction Ø 20	6 516 12
Elbows 25	Change direction Ø 25	6 516 13
Tees 16	To join conduits together and to change direction Ø 16	6 516 18
Tees 20	To join conduits together and to change direction Ø 20	6 516 19
Tees 25	To join conduits together and to change direction Ø 25	6 516 20
Bends 12	Change of direction Ø 12	6 516 40
Coupling 12	Link between two conduits of Ø 12	6 516 70
Coupling 63	Link between two conduits of Ø 63	6 516 77

■ **7.2 Outside system accessories :**

Bending springs 16	Bending of conduit Ø 16	651632
Bending springs 20	Bending of conduit Ø 20	651633
Bending springs 25	Bending of conduit Ø 25	651634