
RIIFO PVC RIGID CONDUIT



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ABOUT RIIFO

RIIFO is a leading multinational corporation, providing one-stop piping solutions applied in residential, commercial, agricultural, industrial, and infrastructural sectors. Persistently reinventing since 1996, with over 8,000 employees, 70 branches & subsidiaries, and 300,000 distributors, we have served customers in more than 100 countries and regions.

With an integrated value chain, from R&D to manufacturing and retail distribution, we strive to fulfill our mission of offering ideal piping products and services for all environments.

8,000

Employees

300,000

Distributors worldwide

100+

Serving over 100
countries & regions

70

Branches & Subsidiaries



INNOVATION

Believing that innovation is the key to go beyond the ordinary, RIIFO has founded one world-class labs recognized and certified by CNAS. Over 600 innovation talents have spared no effort to challenge industrial boundaries, achieving 923 patents and 20 technology awards.

And this innovative passion has perfectly presented on high quality products and outstanding services, we strive to offer ideal piping solutions to everyone.



SCALE

We adopt highly automated production lines with the most rigorous and comprehensive production control, and management system to handle such a powerful production.

Facility

9

global production bases

5,200+

production staffs

200

hectares area totally

4,000+

automated production lines

Capacity

Production Capacity

- Pipe: **3.2 billion** m/yr
- Fitting: **1.3 billion** pcs/yr

Storage Capacity

- **1,735,000 m³** ≈ 61,950 TEU (20 GP Containers)

RIIFO APPROVALS

RIIFO adhere to the concept of quality priority,all RIIFO products are produced under rigorous quality control with excelsior manufacturing. Until now,RIIFO has gained over 50 certificates, such as NSF, DVGW, AENOR, WRAS Watermark, etc. These certificates worldwide underline our technical and quality know-how, and we can provide you with 25 years system warranty backed up by an international insurance company.

Group Honor



Piping Systems





PROJECT REFERENCE

PROJECT REFERENCE



Yadot Tower, Ethiopia

Project: Yadot Tower Project
 Type: Mix-use building
 Year: 2021
 Product: PVC System



Tangerang, Banten, Indonesia

Project: Sky House BSD
 Type: Mixed Use Building
 Years: 2019
 Product: PVC drainage system

PROJECT REFERENCE

Century Addis Real Estate, Ethiopia

Project: Century Addis Real Estate-
Brass Apartment Project
Type: Apartment
Year: 2021
Product: PVC System



MDM, Ethiopia
Project: BOLE-RWANDA District Grand View Addis
Project
Type: Apartment
Year: 2021
Product: PVC System+Multilayer Plumbing System



CSCEC, Ethiopia
Project: CSCEC Ethiopia National Stadium
Type: Stadium
Year: 2021
Product: HDPE Water supply pipe+HDPE
Double wall corrugated pipe



**Kidus Commercial Center,
Ethiopia**
Project: Kidus Commercial Center
Type: Apartment
Year: 2021
Product: PVC System

PROJECT REFERENCE

Medan, North Sumatera, Indonesia

Project: Regina Maris Hospital
Type: Hospital
Years: 2021
Product: PP-R Plumbing System,
PVC Conduit Piping System



Banjarmasin, Kalimantan, Indonesia

Project: Tower ATC Airnav
Type: Airport
Years: 2020
Product: PVC rigid conduit system



Tangerang, Banten, Indonesia

Project: Kingland Avenue
Type: Apartment
Years: 2019
Product: PVC rigid conduit system

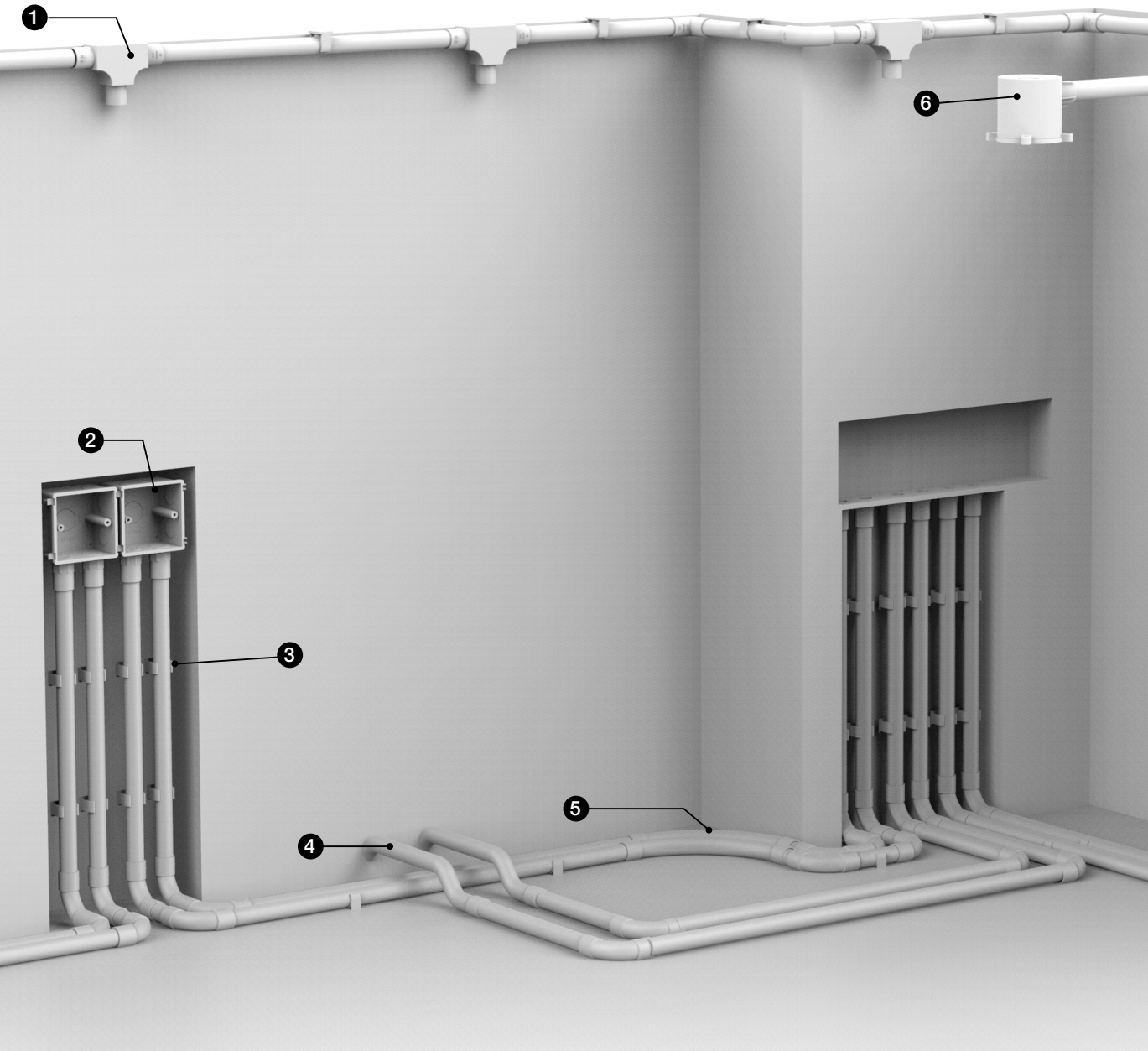


Jakarta, Indonesia

Project: Perguruan Tinggi Ilmu Kepolisian
Type: Education
Years: 2020
Product: PVC rigid conduit system



RIIFO PVC RIGID CONDUIT



RIIFO PVC RIGID CONDUIT

RIIFO PVC rigid conduit is made of high-quality polyvinyl chloride resins and imported processing additives. It has an advantage of high impact resistance, strong flame retardancy and excellent cold bending performance, offering perfect solution for electrical safety in residential, commercial, and industrial use. RIIFO PVC rigid conduit is proven durable and effective for years of maintenance-free performance in underground.

Application

- Protect and manage indoor electrical wiring.
- Residential apartments, condominiums, public housing.
- Commercial shopping centers, office buildings, industrial use.
- Hospitals, schools, hotels and resorts.

Advantages

- | | |
|--|--|
|  Environmental protection and safety, recognized by EPD. |  Strong flame retardancy, extinguish after leaving the flame for 30 seconds. |
|  Good insulation, able to resist AC2000V voltage and insulation resistance more than $1 \times 10^8 \Omega$. |  High impact resistance and excellent cold bending performance, which can use less fittings and save more time. |
|  Low coefficient of roughness and smooth walls reduce friction during wire pull. |  Excellent physical and chemical properties ensure better tensile strength and durability. |
|  Light weight and convenient to transport. |  No need for special installation tools, ease and convenient of installation. |

Standards

IEC 61386-21
JG 3050-1998

Certificate



RIIFO CONDUIT FITTINGS



Long Radius Bend

- Large arc of the fitting reduces threadin resistance.
- Compared to ordinary elbows, it is convenient for electric wires installation



Multifunction Gang Box

- Compared to the ordinary design, the punching position has been moved up by 1cm, which means the slotting depth can reduce 1cm. It greatly improve the efficiency of installation.
- Offering the side punching and the front punching can meet various installation demands.
- The cylindrical connection can prevent cement and mud from getting into the box



Audio Cable Boxes

- Suit for home TV cable, network cable, digital cable connection box.
- Large diameter can accommodate a large number of wires.

TECHNICAL DATA

Performance Parameter

Term	Index	Term	Index
Density	1.35~1.55	Maximum working temperature /° C	60
Coefficient of linear expansion/(×10 ⁻⁵ m/m.° C)	6~12	Thermal conductivity /[W/(m.K)]	0.12~0.20
Tensile strength /Mpa	35~45	Coefficient of friction	0.45
Elongation at break/%	60~120	Insulation resistance (Ω)	≥ 10 ⁸
Bending strength/MPa	65~110	Dielectric strength/(kV/mm)	≥ 2.0
Compressive strength/MPa	50~80	Oxygen Index/%	≥ 32
Shore hardness D	70~90	Self-extinguishing time from fire/sec	≤ 30

Term	GY.205	GY.305	GY.405
Cold Bending Performance(-5° C)	Φ16 bending radius 84mm	Φ20 bending radius 105mm	Φ25 bending radius 131mm
Insulation Index	No breakdown in AC2000V and 50 Hz within 15mins, Insulation resistance ≥ 100MΩ		
Ring Stiffness	65 KN/m ²	110 KN/m ²	180 KN/m ²
Self-IgnitionTemperature	600° C	600° C	600° C
Working temperature	- 5 ~ 60°C	- 5 ~ 60°C	- 5 ~ 60°C
Compressive performance	320N	750N	1250N

Product Category

Pipe	Classification	Working temperature	Application	Scene picture
205	Light	- 5 ~ 60°C	Suitable for laying in suspended ceilings,Ordinary walls and floors can also be used.	
215		-15 ~ 60°C		
305	Medium	- 5 ~ 60°C	Suitable for laying in concrete, walls and floors	
315		-15 ~ 60°C		
405	Heavy	- 5 ~ 60°C	Suitable for laying in concrete and floor in places with gravity.	
415		-15 ~ 60°C		



SPECIFICATIONS

RIIFO Conduit Pipes

RIIFO Conduit Pipe GY.205



Specif.	Packing Specif. (m)	Color
PVC-GY.205-16x1.0	2.9/116(2.9*40)	White
PVC-GY.205-20x1.1	2.9/87(2.9*30)	White
PVC-GY.205-25x1.3	2.9/87(2.9*30)	White
PVC-GY.205-32x1.5	2.9/58(2.9*20)	White

RIIFO Conduit Pipe GY.305



Specif.	Packing Specif. (m)	Color
PVC-GY.305-16x1.2	2.9/116(2.9*40)	White
PVC-GY.305-16x1.3	2.9/116(2.9*40)	White
PVC-GY.305-20x1.3	2.9/87(2.9*30)	White
PVC-GY.305-20x1.5	2.9/87(2.9*30)	White
PVC-GY.305-25x1.5	2.9/87(2.9*30)	White
PVC-GY.305-25x1.6	2.9/87(2.9*30)	White
PVC-GY.305-32x1.7	2.9/58(2.9*20)	White
PVC-GY.305-32x1.8	2.9/58(2.9*20)	White
PVC-GY.305-40x2.0	2.9/29(2.9*10)	White
PVC-GY.305-50x2.2	2.9/14.5(2.9*5)	White

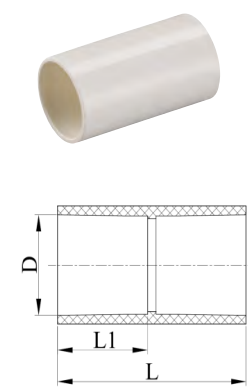
RIIFO Conduit Pipe GY.405



Specif.	Packing Specif. (m)	Color
PVC-GY.405-16x1.6	2.9/116(2.9*40)	White
PVC-GY.405-20x1.8	2.9/87(2.9*30)	White
PVC-GY.405-20x2.0	2.9/87(2.9*30)	White
PVC-GY.405-25x1.9	2.9/87(2.9*30)	White
PVC-GY.405-32x2.3	2.9/58(2.9*20)	White
PVC-GY.405-40x2.3	2.9/29(2.9*10)	White
PVC-GY.405-50x2.3	2.9/14.5(2.9*5)	White

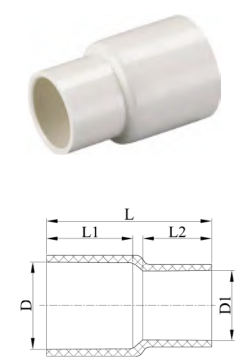
RIIFO Conduit Fittings

Coupling



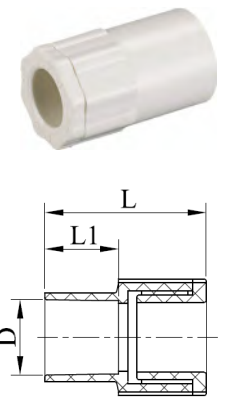
Code	Specif.	pcs/box	pcs/ctn.	D	L	L1
049724	F20-S16x16	300	1800	16	33.5	16
041682	F20-S20x20	160	960	20	42	20
041684	F20-S25x25	80	480	25	52	25
049725	F20-S32x32	75	600	32	66	32
039834	F20-S16x16(Lengthened)	200	1200	16	45	21.5
032054	F20-S20x20(Lengthened)	720	20	55	26.5	
049726	F20-S40x40	512	40	67	32	
049727	F20-S50x50	288	50	67	32	

Reducing coupling



Code	Specif.	pcs/box	pcs/ctn.	DxD1	L	L1	L2
050918	F20-S20x16	180	1080	20x16	37	20	16
050919	F20-S25x20	110	660	25x20	48	25	20
050927	F20-S32x25	100	800	32x25	60	32	25

Terminal adapter



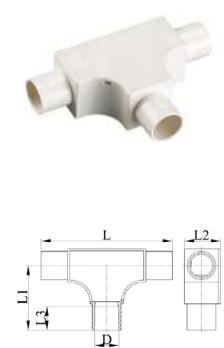
Code	Specif.	pcs/box	pcs/ctn.	D	L	L1
049747	F20-J16x16	280	1680	16	33	16
041681	F20-J20x20	150	900	20	37	20
041680	F20-J25x25	90	540	25	43	25
049748	F20-J32x32	85	680	32	52	32
022928	F20-J40x40	288	40	53	32	
049749	F20-J50x50	500	50	53	32	

Reducing terminal adapter



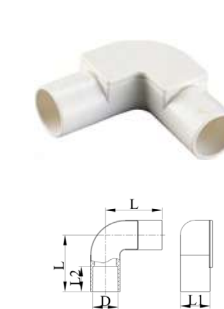
Code	Specif.	pcs/box	pcs/ctn.	D1xD	L	L1
049750	F20-J20x16	180	1080	20x16	34.5	16
041838	F20-J25x20	100	600	25x20	40	20

Inspection tee



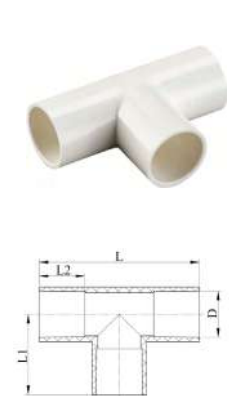
Code	Specif.	pcs/box	pcs/ctn.	D	L	L1	L2	L3
050920	F20-GT16x16x16	60	480	16	100	49.5	27.8	16
049736	F20-GT20x20x20	40	320	20	109	54	32	20
049737	F20-GT25x25x25	25	200	25	116	57.5	39	25

Elbow with cover



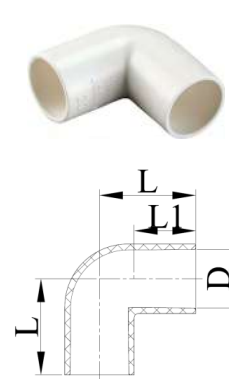
Code	Specif.	pcs/box	pcs/ctn.	D	L	L1	L2
050921	F20-GL16x16	100	600	16	41.5	19	16
049734	F20-GL20x20	60	360	20	45	23.5	20
049735	F20-GL25x25	40	240	25	50	29	25
049947	F20-GL32x32	30	240	32	67.5	36.5	32

Tee



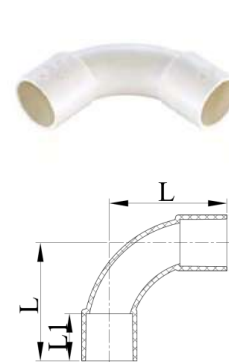
Code	Specif.	pcs/box	pcs/ctn.	D	L	L1	L2
049730	F20-T16x16x16	120	720	16	53	26.5	16
041834	F20-T20x20x20	60	360	20	70	35	20
041835	F20-T25x25x25	60	480	25	80	40	25
049731	F20-T32x32x32	32	256	32	100	50	32
035045	F20-T40x40x40	15	120	40	108	54	32
048713	F20-T50x50x50	12	96	50	118	59	32

Elbow



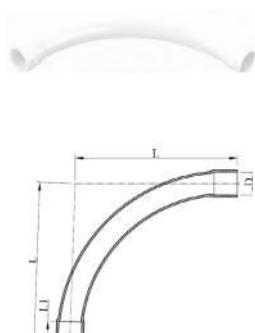
Code	Specif.	pcs/box	pcs/ctn.	D	L	L1
049728	F20-L16x16	180	1080	16	28	16
041831	F20-L20x20	100	600	20	33	20
041683	F20-L25x25	55	330	25	41	25
049729	F20-L32x32	50	400	32	50.5	32
035047	F20-L40x40	24	192	40	54	32
048712	F20-L50x50	18	144	50	60	32

Long radius bend



Code	Specif.	pcs/box	pcs/ctn.	D	L	L1
041832	F20-DL16x16	140	840	16	43.3	16
041833	F20-DL20x20	70	420	20	50	20
041685	F20-DL25x25	85	680	25	60	25
049732	F20-DL32x32	30	240	32	78.7	32
035049	F20-DL40x40	15	120	40	91	32
049733	F20-DL50x50	11	88	50	91	32

Super long radius bend



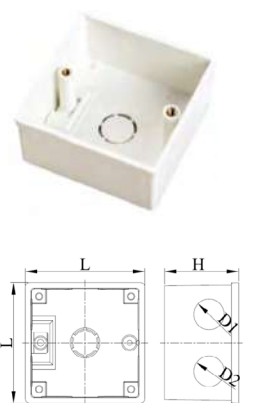
Code	Specif.	pcs/ctn.	D	L	L1
025143	F20-DL20x20	120	20	139.5	20

118 PVC concealed box



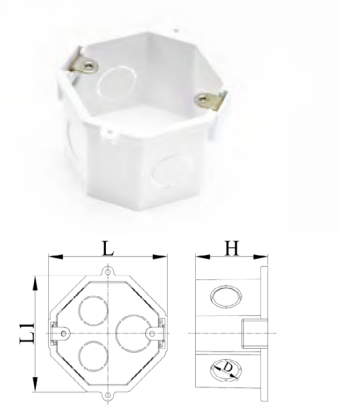
Code	Specif.	pcs/ctn.	H	L	L1	D1	D2	D3	D4
010459	F20-106x61x50 II Φ20Φ25	100	50	108	63.5	20	25		
010460	F20-143x61x50 II Φ20Φ25	50	50	145	63.5	20	25	20	
010461	F20-184x61x50 II Φ20Φ25	30	50	186	63.5	25	20	20	25
041840	F20-100x61x50 III Φ20Φ25	60	50	99.6	61	20	25		
016640	F20-136x61x50 III Φ20Φ25	45	50	135.6	61	20	25	20	
016641	F20-177x61x50 III Φ20Φ25	30	50	177.1	61	25	20	20	25

Surface installation gang box



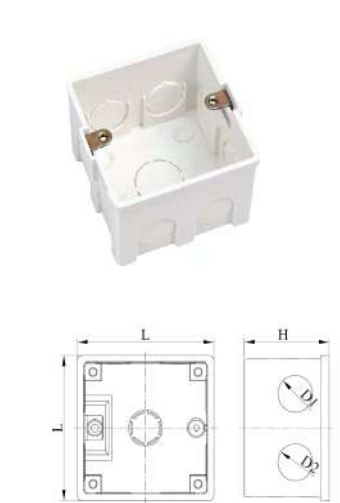
Code	Specif.	pcs/ctn.	H	L	D1	D2
041839	F20-86x86x40	120	40	86	25	20

Octagonal box



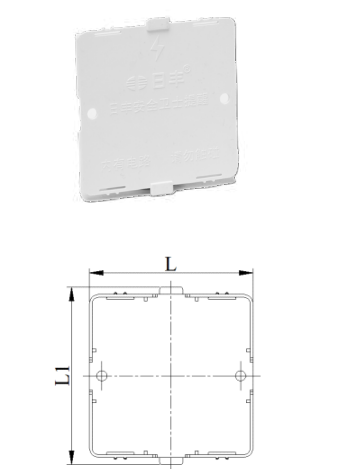
Code	Specif.	pcs/ctn.	H	L	L1	D
049718	F20-77x77x50 II Φ20 60	50		82.1	79.6	20
049719	F20-77x77x60 II Φ20 40	60		82.1	79.6	20
049720	F20-77x77x70 II Φ20 40	70		82.1	79.6	20

Concealed gang box



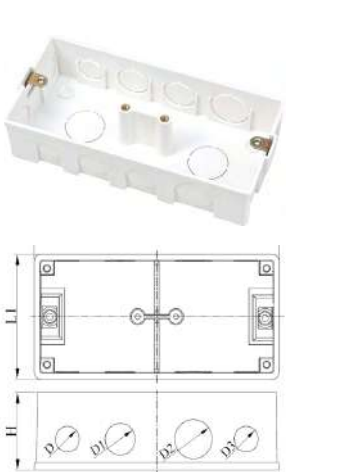
Code	Specif.	pcs/ctn.	H	L	L1	D
033550	F20-77x77x70 II Φ20Φ25	150	70	81	20	25
041841	F20-77x77x70 II Φ20	40	70	81	20	20
041980	F20-77x77x70 II Φ25	150	70	81	25	25
019878	F20-77x77x70 I Φ20	40	70	80.6	20	20
042044	F20-77x77x60 II Φ25	180	60	81	25	25
019869	F20-77x77x60 II Φ20	180	60	81	20	20
033549	F20-77x77x60 II Φ20Φ25	180	60	81	20	25
019872	F20-77x77x60 I Φ20	40	60	80.6	20	20
019534	F20-77x77x50 III Φ20	60	50	80	20	20
043669	F20-77x77x50 III Φ20(Simple)	60	50	79	20	20
041845	F20-77x77x50 II Φ20	60	50	79.4	20	20
010452	F20-77x77x50 I Φ20	60	50	80.6	20	20
041846	F20-77x77x38 II Φ20	80	38	79.4	20	20
010451	F20-77x77x38 I Φ20	60	38	80.6	20	20

Square lid cover



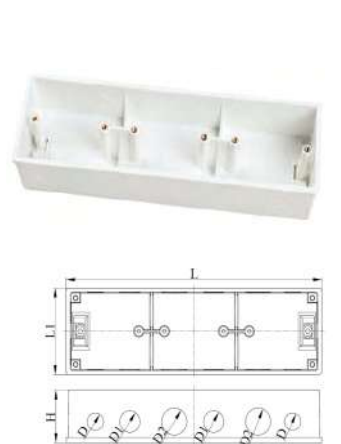
Code	Specif.	pcs/ctn.	L	L1
041847	F20-77x77	540	70.7	77
033616	F20-77x77 II	540	70.7	77

Concealed gang box(double line)



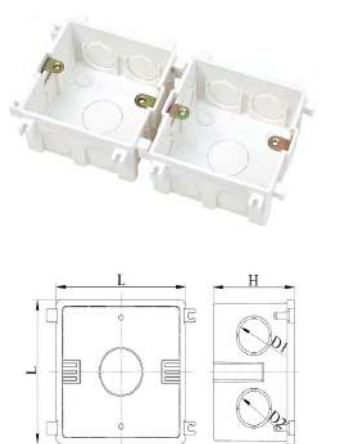
Code	Specif.	pcs/ctn.	H	L	L1	D	D1	D2	D3
017295	F20-164x77x50 III Φ16Φ20Φ25	55	38	166.5	80	16	20	20	25
010468	F20-164x77x50 II Φ16Φ20Φ25	55	50	166.4	79.4	16	20	20	25
010454	F20-164x77x50 I Φ16Φ20Φ25	55	50	167.6	80.6	16	20	25	
010467	F20-164x77x38 II Φ16Φ20Φ25	30	38	166.4	79.4	16	20	20	25
049716	F20-164x77x38 I Φ16Φ20Φ25	70	38	167.6	80.6	16	20	25	

Concealed gang box(three line)



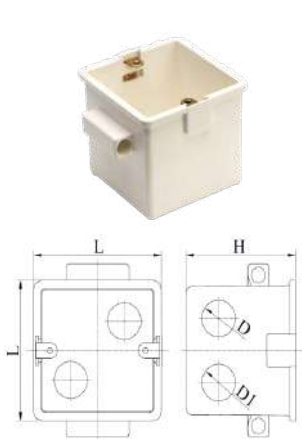
Code	Specif.	pcs/ctn.	H	L	L1	D	D1	D2
049717	F20-255x77x50 I Φ16Φ20Φ25	30	50	259.4	81.4	16	20	25

Snap concealed gang box



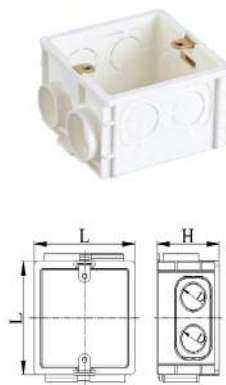
Code	Specif.	pcs/ctn.	H	L	L1	D
039626	F20-77x77x70 II Φ20	120	70	80.5	20	20
039625	F20-77x77x60 II Φ20	144	60	80.5	20	20
017662	F20-77x77x50 III Φ20	60	50	80	20	20
048302	F20-77x77x50 III Φ20(Simple)	60	50	79	20	20
049752	F20-77x77x50 II Φ20	60	50	79.4	20	20
043674	F20-77x77x50 II Φ20(Simple)	60	50	81.5	20	20
010471	F20-77x77x50 II Φ20Φ25	60	50	79.4	20	25
010458	F20-77x77x50 I Φ20	60	50	81	20	20
041844	F20-77x77x38 II Φ20	80	38	79.4	20	20

Concealed gang box(through the rebar)



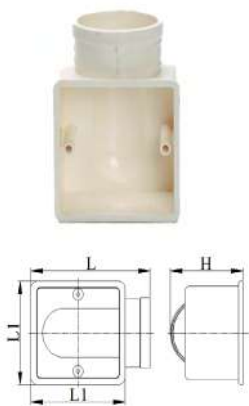
Code	Specif.	pcs/ctn.	H	L	D	D1
039001	F20-77x77x70 III Φ20	120	70	82.5	20	20
039002	F20-77x77x70 III Φ25	120	70	82.5	25	25
041843	F20-77x77x70 II Φ25	120	70	81	25	25
020382	F20-77x77x70 II Φ20	120	70	81	20	20
041842	F20-77x77x70 II Φ20Φ25	120	70	81	20	25

Multifunction Gang Box



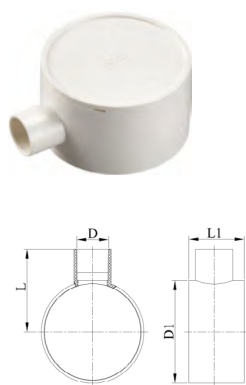
Code	Specif.	pcs/ctn.	H	L	D
025704	F20-77x77x50 II Φ20	60	50	81.6	20
031794	F20-77x77x38 II Φ20	80	38	81.6	20

Audio Cable Boxes



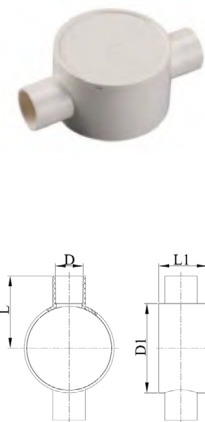
Code	Specif.	pcs/ctn.	H	L	L1
022897	F20-77x77x50 I	160	58	103	78

One way round junction box



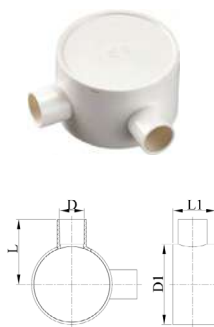
Code	Specif.	pcs/ctn.	D	D1	L1	L
010291	F20-65x35Φ16	315	16	65	35	48
041848	F20-65x35Φ20	315	20	65	35	52.5
041849	F20-65x35Φ25	315	25	65	35	57.5
010294	F20-65x65Φ16	200	16	65	65	48
049738	F20-65x65Φ20	180	20	65	65	52.5
049739	F20-65x65Φ25	150	25	65	65	57.5

Two way through round junction box



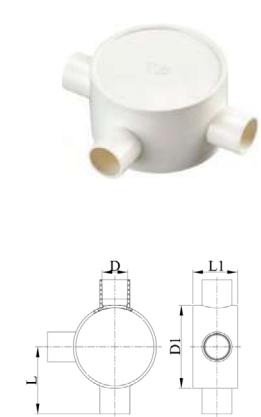
Code	Specif.	pcs/ctn.	D	D1	L1	L
019914	F20-65x35Φ16	378	16	65	35	48
041850	F20-65x35Φ20	378	20	65	35	52.5
041851	F20-65x35Φ25	288	25	65	35	57.5
019908	F20-65x65Φ16	175	16	65	65	96
010319	F20-65x65Φ20	175	20	65	65	105
019911	F20-65x65Φ25	150	25	65	65	115

Two way angle round junction box



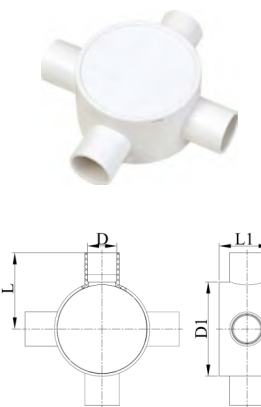
Code	Specif.	pcs/ctn.	D	D1	L1	L
010315	F20-65x35Φ16	378	16	65	35	48
041852	F20-65x35Φ20	315	20	65	35	52.5
041853	F20-65x35Φ25	315	25	65	35	57.5
019558	F20-65x65Φ16	175	16	65	65	48
049740	F20-65x65Φ20	175	20	65	65	52.5
049741	F20-65x65Φ25	315	25	65	65	57.5

Three way round junction box



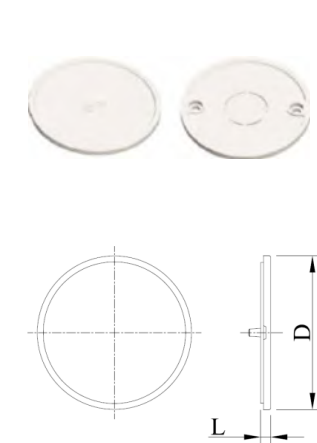
Code	Specif.	pcs/ctn.	D	D1	L1	L
010378	F20-65x35Φ16	315	16	65	35	48
041686	F20-65x35Φ20	261	20	65	35	52.5
041687	F20-65x35Φ25	216	25	65	35	57.5
019899	F20-65x65Φ16	175	16	65	65	96
049742	F20-65x65Φ20	150	20	65	65	105
049743	F20-65x65Φ25	144	25	65	65	115

Four way through round junction box



Code	Specif.	pcs/ctn.	D	D1	L1	L
010410	F20-65x35Φ16	315	16	65	35	48
041854	F20-65x35Φ20	261	20	65	35	52.5
041855	F20-65x35Φ25	216	25	65	35	57.5
019920	F20-65x65Φ16	175	16	65	65	96
049744	F20-65x65Φ20	150	20	65	65	105
049745	F20-65x65Φ25	120	25	65	65	115

Lid cover



Code	Specif.	pcs/box	pcs/ctn.	L	D
049746	F20-D65 II	400	2400	4.7	65
019896	F20-D65		800	8	65

Pipe cutter



Code	Specif.	pcs/ctn.
044118	GJ IV	40

PVC adhesive



Code	Specif.	pcs/ctn.
017289	PVC adhesive 100ML	24
022744	PVC adhesive 250ML	24
024336	PVC adhesive 500ML	12

Row clip



Code	Specif.	pcs/box	pcs/ctn.
050922	F20-D16	100	600
049751	F20-D20	60	360

Bending spring



Code	Specif.	pcs/ctn.
015830	WH205-D16	80
015831	WH205-D20	50
015832	WH205-D25	30
015833	WH205-D32	18
015834	WH305-D16	80
050924	WH305-D20	50
050925	WH305-D25	30
050926	WH305-D32	18
015838	WH405-D16	80
015839	WH405-D20	50
015840	WH405-D25	30
015841	WH405-D32	18



Installation of fitting



STEP 1: Measuring

Wipe the surface of pipe and fitting to keep clean.
Measure the installation depth of pipe and fitting.



STEP 2: Marking

Mark down the depth of installation.
Measure the installation depth of pipe and fitting.



STEP 3: Applying PVC glue

Apply the pipe and fitting evenly with PVC glue.



STEP 4: Connection

After the pipe and fitting are coated with glue,
insert them quickly, and rotate them to distribute
the glue evenly to ensure a firm connection.
After the installation is complete, wipe the
overflowing glue.

Installation of gang box



STEP 1: Insert and tighten

Insert terminal adapter into the gang box and then tighten.



STEP 2: Measuring

Wipe the surface of pipe and fitting to keep clean. Measure the installation depth of pipe and fitting.



STEP 3: Marking

Mark down the depth of installation.



STEP 4: Applying PVC glue

Apply the pipe and fitting evenly with PVC glue.



STEP 5: Connection

After the pipe and fitting are coated with glue, insert them quickly, and rotate them to distribute the glue evenly to ensure a firm connection. After the installation is complete, wipe the overflowing glue.

PACKAGING



Marking

The pipe shall have a readable and permanent marking, the interval shall be no more than 1m. The marking information shall include trade name, material, dimension, operating pressure, standard and production date.

For example

RIIFO HIGH IMPACT CONDUIT outer diameter x wall thickness (e.g. 20*1.5mm) IEC 61386-21 332112 production date, batch No.001m

Package

PVC conduit pipes- Bag



PVC conduit fittings-Carton

