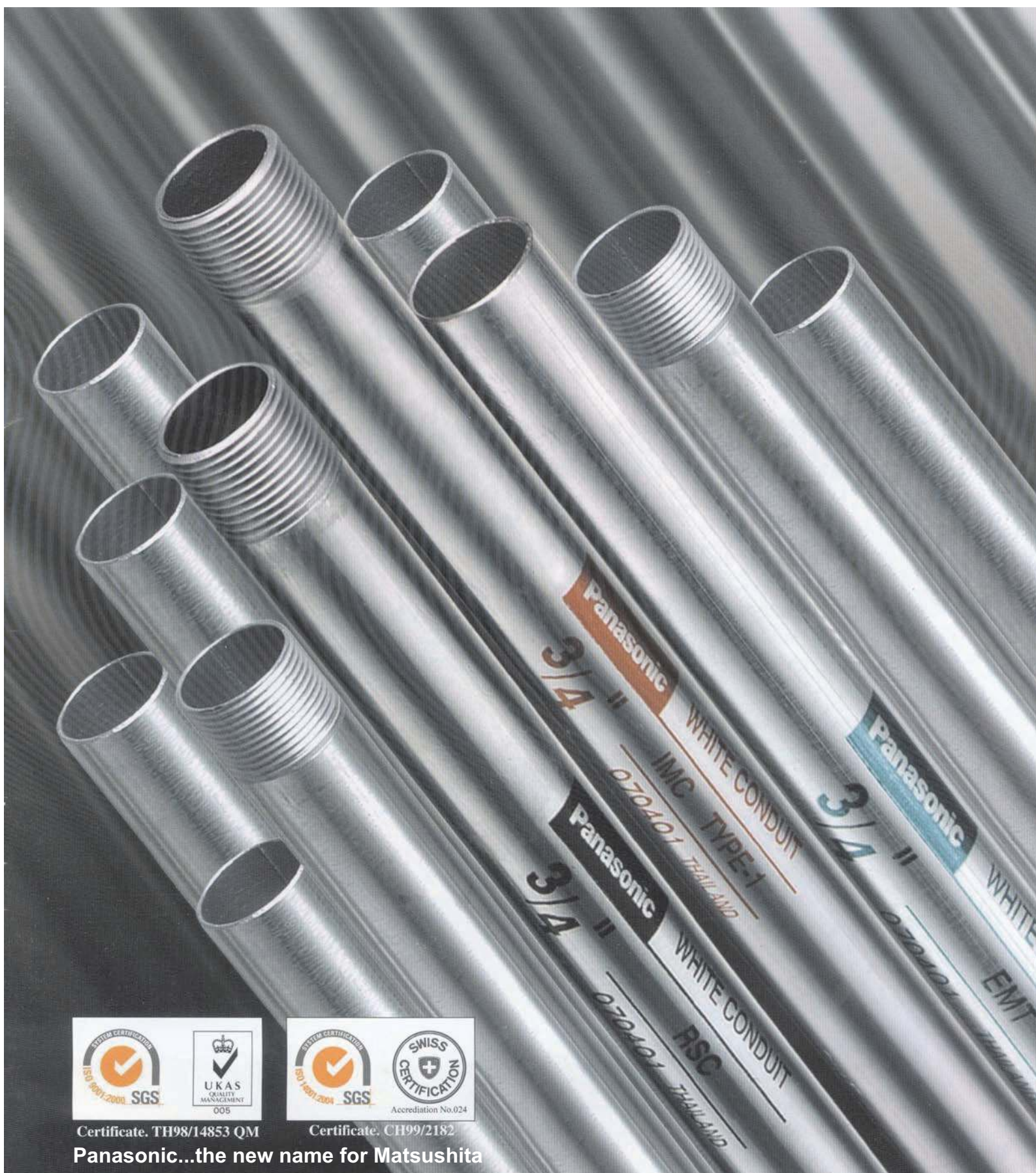


Panasonic

ideas for life

WHITE CONDUIT
POLYETHYLENE-LINING STEEL PIPE



Certificate. TH98/14853 QM



Certificate. CH99/2182



Panasonic...the new name for Matsushita

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WHITE CONDUIT

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Panasonic White Conduit & Accessories

Kegunaan Steel Conduit adalah untuk proteksi instalasi pada kabel.

KEUNGGULAN:

1). Mudah dan akurat bila dibending

Panasonic White Conduit terbuat dari steel berkualitas tinggi yang diproses dengan *induction welding* frekwensi tinggi sehingga tidak retak dan patah pada saat dibending.

2). Mudah untuk memasukkan dan mengeluarkan kabel

Dengan High grade stoved epoxy resin coating pada lapisan dalam conduit membuat installer mudah untuk memasukkan dan mengeluarkan kabel dari Conduit.

3). Mudah dalam penyambungan dan cepat untuk pemasangan

Pemotongan drat dengan mesin otomatis yang sangat presisi memudahkan dalam penyambungan dan cepat dalam pemasangan.

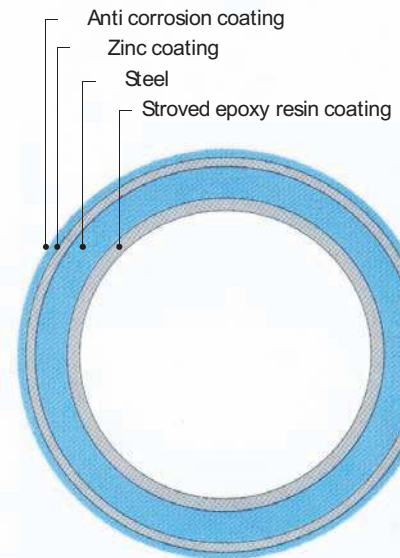
4). Tahan Karat

Dengan zinc coating murni pada bagian luarnya serta strove epoxy resin pada bagian dalamnya melindungi White Conduit dari karat, bahkan tahan karat dari bahan kimia berat dan air laut.

5). Kualitas yang seragam

White Conduit dibuat dalam suatu proses otomatis yang terus menerus dari proses awal hingga akhir yang membuat semua White Conduit seragam dalam kualitas tinggi.

CROSS-SECTIONAL VIEW OF Panasonic WHITE CONDUIT



STANDART

Panasonic WHITE CONDUIT tersedia dalam 4 standar yaitu:

- UL/ANSI (EMT, IMC and RSC)
- BS (BS31-1340 AND BS4568-1970)
- TIS
- JIS (Plain, Thin Wall and Thick Wall)



Underwriters Laboratories Inc.®



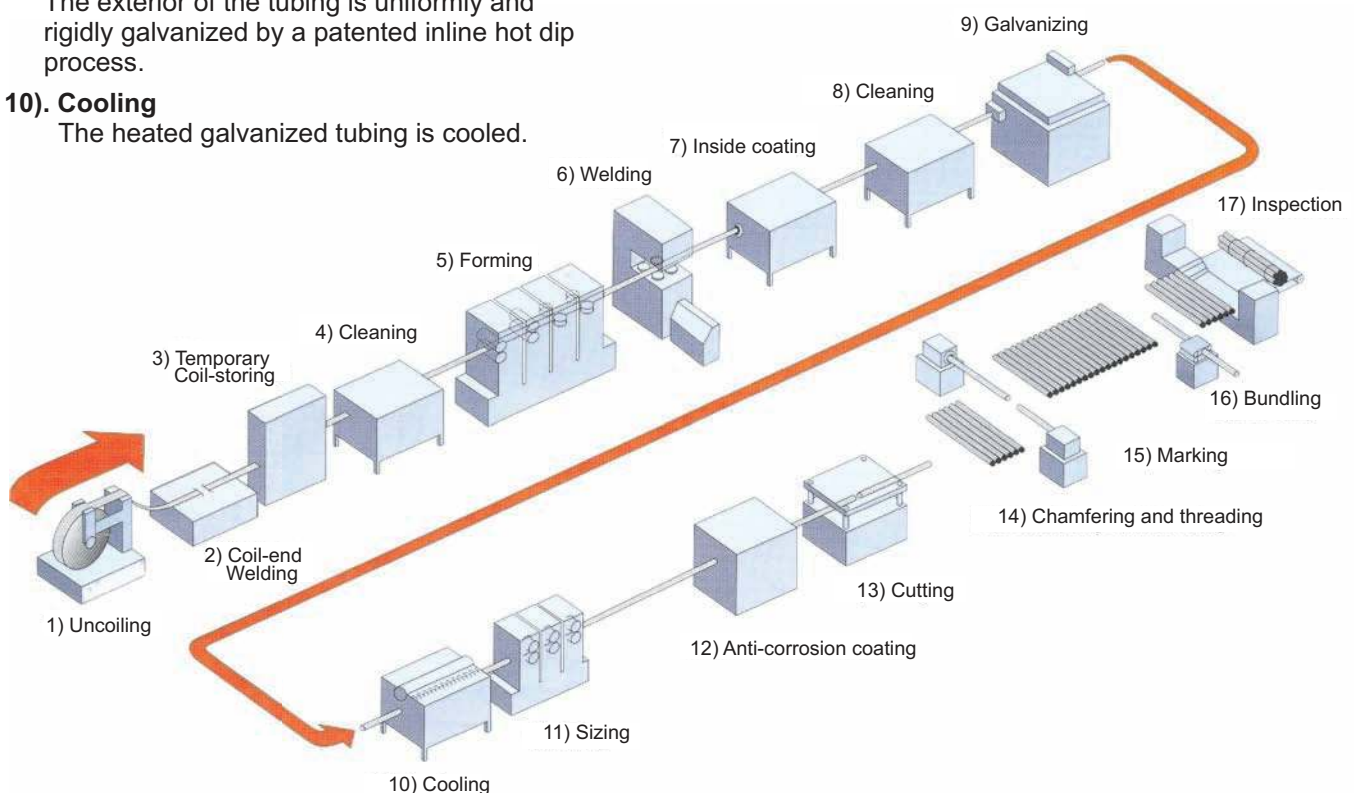
JAPANESE INDUSTRIAL STANDARDS CERTIFICATION MARKING FACTORY



THAI INDUSTRIAL STANDARD

Flow Chart of Manufacturing Process

- 1). Uncoiling**
High quality strip steel coils are uncoiled and sent to the forming mills.
- 2). Coil-end welding**
Both ends of the coils are welded to form a single strip.
- 3). Temporary coil-storing**
Strip steel is stored here temporarily for coil end welding without stopping the main line.
- 4). Cleaning**
All surface scale and oil on the strip steel are removed to assure accurate forming and rigid welding.
- 5). Forming**
The flat strip steel is rolled into basic tubing.
- 6). Welding**
Basic tubes are welded by a high frequency induction welder. This type of welding assures rigidity, splitting-resistance and effectively eliminates inside flash.
- 7). Inside coating**
The inside wall of the conduit is coated with epoxy resin
- 8). Cleaning**
All surface scale and oil are removed from the tubing prior to galvanizing.
- 9). Galvanizing**
The exterior of the tubing is uniformly and rigidly galvanized by a patented inline hot dip process.
- 10). Cooling**
The heated galvanized tubing is cooled.
- 11). Sizing**
The cooled, galvanized tubing is rolled to precise outside diameters in accordance with customer specifications.
- 12). Anti-corrosion coating**
For protection in addition to zinc coating, the galvanized surface is finished with a clear anti-corrosion coating.
- 13). Cutting**
Tubing is square-cut to the specified lengths.
- 14). Chamfering and threading**
Both ends of the cut conduit are chamfered and threaded to precise tolerance.
- 15). Marking**
Brand name, size, standards, production codes, etc. are printed on the conduit.
- 16). Bundling**
Finished conduit is steel strapped into approximately one metric ton bundles and ends are wrapped with burlap.
- 17). Inspection**
At all steps of production, strict quality control is enforced. Unless customer specifies UL, or other certificates, all conduit is inspected according to factory specifications.



White Conduit & Conduit Fittings

ANSI

EMT (*Electrical Metallic Tubing*)

Listed by "UL" File No. E-44051

UL 797

Item No.	Size (inch)	Outside Diameter (mm)	Minimum Wall Thickness (mm)	Length (mm)	Nominal Weight (kg/ pc)	Primary Bundle (pcs)	Master Bundle (pcs)
DWE012Y	1/2	17.93	1.02	3,048	1.46	10	500
DWE034Y	3/4	23.42	1.18	3,048	2.21	10	300
DWE100Y	1	29.54	1.37	3,048	3.08	5	200
DWE114Y	1-1/4	38.35	1.57	3,048	4.74	5	125
DWE112Y	1-1/2	44.20	1.57	3,048	5.49	5	100
DWE200Y	2	55.80	1.57	3,048	6.99	3	75

IMC (*Intermediate Metal Conduit*)

Listed by "UL" File No. E-62193

UL 1242

Item No.	Size (inch)	Outside Diameter (mm)	Minimum Wall Thickness (mm)	Length (mm)	Nominal Weight (kg/ pc)	Primary Bundle (pcs)	Master Bundle (pcs)
DWM012Y	1/2	20.70	1.79	3,030	2.85	10	300
DWM034Y	3/4	26.14	1.90	3,030	3.94	10	250
DWM100Y	1	33.27	2.16	3,025	5.23	5	125
DWM114Y	1-1/4	41.59	2.29	3,025	7.48	3	75
DWM112Y	1-1/2	47.81	2.41	3,025	8.67	3	75
DWM200Y	2	59.93	3.56	3,025	11.65	-	50
DWM212Y	2-1/2	72.56	3.56	3,010	18.71	-	40
DWM300Y	3	88.29	3.56	3,010	22.87	-	30
DWM312Y	3-1/2	100.86	3.56	3,005	26.43	-	20
DWM400Y	4	113.40	3.56	3,005	29.84	-	15

RSC (*Rigid Steel Conduit*)

Listed by "UL" File No. E-157617

UL 6

Item No.	Size (inch)	Outside Diameter (mm)	Minimum Wall Thickness (mm)	Length (mm)	Nominal Weight (kg/ pc)	Primary Bundle (pcs)	Master Bundle (pcs)
DWR012Y/ZY	1/2	21.34	2.64	3,030	3.75	10	300
DWR034Y/ZY	3/4	26.67	2.72	3,030	4.96	10	250
DWR100Y/ZY	1	33.40	3.20	3,025	7.33	5	125
DWR114Y/ZY	1-1/4	42.16	3.38	3,025	9.97	3	75
DWR112Y/ZY	1-1/2	48.26	3.51	3,025	11.94	3	75
DWR200Y/ZY	2	60.33	3.71	3,025	16.00	-	50
DWR212Y/ZY	2-1/2	73.03	4.90	3,010	25.62	-	40
DWR300Y/ZY	3	88.90	5.21	3,010	33.43	-	30
DWR400Y/ZY	4	114.30	5.72	3,005	47.38	-	15
DWR500Y/ZY	5	141.30	6.22	2,995	64.38	-	10
DWR600Y/ZY	6	168.28	6.76	2,995	84.05	-	5

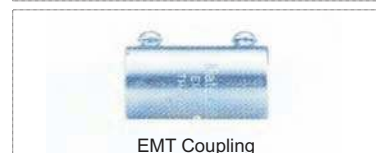
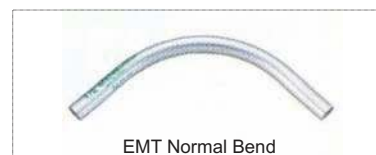
Note: figures are Hot-dip galvanies conduit for RSC

Normal Bends <for EMT>

Item No.	Size (inch)	Weight (kg/pc)
DSM 04012Y	1/2	0.10
DSM 04034Y	3/4	0.20
DSM 04100Y	1	0.40
DSM 04114Y	1-1/4	0.60
DSM 04112Y	1-1/2	0.80
DSM 04200Y	2	0.10

Couplings (Steel) <for EMT>

Item No.	Size (inch)	Weight (kg/ pack)	Standard Pack (pack)
DSE 01012Y	1/2	0.10	100
DSE 01034Y	3/4	0.20	100
DSE 01100Y	1	0.40	100
DSE 01114Y	1-1/4	0.60	25
DSE 01112Y	1-1/2	0.80	25
DSE 01200Y	2	0.10	25

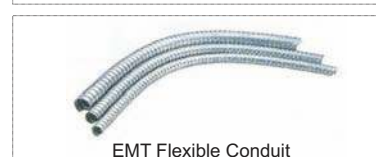


Connector (Steel) <for EMT>

Item No.	Size (inch)	Weight (kg/ pack)	Standard Pack (pcs)
DFM 020112Y	1/2	3.5	100
DFM 020334Y	3/4	5.5	100
DFM 021002Y	1	7.5	100

Flexible Conduit <for EMT>

Item No.	Size (inch)	Weight (kg/ pack)	Standard Pack (m)
DME 021	1/2	8.2	30
DME 034	3/4	10.2	30
DME 100	1	6.6	15

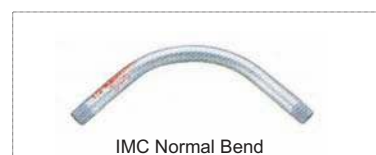


Normal Bends <for IMC>

Item No.	Size (inch)	Weight (kg/pc)
DFM 13012Y	1/2	0.30
DFM 13034Y	3/4	0.40
DFM 13100Y	1	0.80
DFM 13114Y	1-1/4	1.00
DFM 13112Y	1-1/2	1.40
DFM 13200Y	2	2.50
DFM 13212Y	2-1/2	4.80
DFM 13300Y	3	6.60
DFM 13312Y	3-1/2	8.90
DFM 13400Y	4	12.30

Couplings (Steel) <for IMC>

Item No.	Size (inch)	Weight (kg/ pack)	Standard Pack (pcs)
DFM 11012Y	1/2	14.9	250
DFM 11034Y	3/4	18.3	200
DFM 11100Y	1	19.1	150
DFM 11114Y	1-1/4	19.2	100
DFM 11112Y	1-1/2	22.3	100
DFM 11200Y	2	13.6	40
DFM 11212Y	2-1/2	14.6	18
DFM 11300Y	3	16.6	18
DFM 11312Y	3-1/2	15.3	12
DFM 11400Y	4	16.5	12

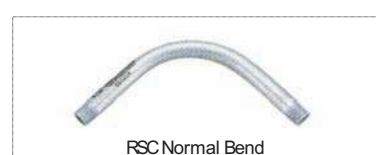


Normal Bends <for RSC>

Item No.	Size (inch)	Weight (kg/pc)
DFR 13012Y	1/2	0.32
DFR 13034Y	3/4	0.46
DFR 13100Y	1	0.88
DFR 13114Y	1-1/4	1.60
DFR 13112Y	1-1/2	2.11
DFR 13200Y	2	3.20
DFR 13212Y	2-1/2	5.70
DFR 13300Y	3	9.12
DFR 13400Y	4	18.48
DFR 13500Y	5	31.0
DFR 13600Y	6	51.2

Couplings (Steel) <for RSC>

Item No.	Size (inch)	Weight (kg/ pack)	Standard Pack (pcs)
DFR 11012Y	1/2	14.9	250
DFR 11034Y	3/4	18.3	200
DFR 11100Y	1	19.1	150
DFR 11114Y	1-1/4	19.2	100
DFR 11112Y	1-1/2	22.3	100
DFR 11200Y	2	13.6	40
DFR 11212Y	2-1/2	14.6	18
DFR 11300Y	3	16.6	18
DFR 11400Y	4	16.5	12
DFR 11500Y	5	11.8	6
DFR 11600Y	6	14.0	4



White Conduit & Conduit Fittings

JIS

First Thailand - produced product to received JIS approval

JIS Approval No. TH 8801

Plain Conduit (Threadless)

JISC 8305

Item No.	Size	Outside Diameter (mm)	Nominal Wall Thickness (mm)	Lenght (mm)	Nominal Weight (kg/ pc)	Primary Bundle (pcs)	Master Bundle (pcs)
DW 819T	E 19	19.1	1.20	3,660	1.94	10	400
DW 825T	E25	25.4	1.20	3,660	2.62	10	250
DW 831T	E31	30.8	1.40	3,660	3.84	7	175
DW 839T	E39	38.1	1.40	3,660	4.64	5	125
DW 851T	E51	50.8	1.40	3,660	6.24	3	75
DW 863T	E63	63.5	1.60	3,660	8.94	-	50
DW 875T	E75	76.2	1.80	3,660	12.09	-	40

Thin Wall Conduit (Threaded)

JISC 8305

Item No.	Size	Outside Diameter (mm)	Nominal Wall Thickness (mm)		Nominal Weight (kg/ pc)	Primary Bundle (pcs)	Master Bundle (pcs)
DW 119T	C19	19.1	1.60	3,660	2.53	10	400
DW 125T	C25	25.4	1.60	3,660	3.44	10	250
DW 131T	C31	30.8	1.60	3,660	4.36	7	175
DW 139T	C39	38.1	1.60	3,660	5.27	5	125
DW 151T	C51	50.8	1.60	3,660	7.11	3	75
DW 163T	C63	63.5	2.00	3,660	11.10	-	50
DW 175T	C75	76.2	2.00	3,660	13.40	-	40

Thick Wall Conduit (Threaded)

JISC 8305

Item No.	Size	Outside Diameter (mm)	Nominal Wall Thickness (mm)		Nominal Weight (kg/ pc)	Primary Bundle (pcs)	Master Bundle (pcs)
DW 216T	G 16	21.0	2.30	3,660	3.88	10	250
DW 222T	G 22	26.5	2.30	3,660	5.02	10	175
DW 228T	G 28	33.3	2.50	3,660	6.95	7	125
DW 236T	G 36	41.9	2.50	3,660	8.89	5	75
DW 242T	G 42	47.8	2.80	3,660	10.22	3	75
DW 254T	G 54	59.6	2.80	3,660	14.35	-	50
DW 270T	G 70	75.2	2.80	3,660	18.30	-	40
DW 282T	G 82	87.9	2.80	3,660	21.51	-	30
DW 392T	G 92	100.7	3.50	3,660	30.71	-	20
DW 394T	G 104	113.4	3.50	3,660	34.72	-	20

JIS Approval No. TH 8902

Normal Bends **JISC 8330**

Item No.	Size	Weight (kg/ pack)	Standard Pack (pcs)
DF1316T	G 16	0.24	50
DF1322T	G 22	0.41	50
DF1328T	G 28	0.62	25
DF1336T	G 36	0.95	15
DF1342T	G 42	1.40	10
DF1354T	G 54	2.24	-
DF1370T	G 70	3.83	-
DF1382T	G 82	4.80	-
DF1392T	G 92	8.90	-
DF1304T	G 104	9.80	-



Couplings (Steel) **JISC 8330**

Item No.	Size	Weight (kg/ pack)	Standard Pack (pcs)
DF1119T	C 19	15.00	500
DF1125T	C 25	15.00	300
DF1131T	C 31	14.00	200
DF1139T	C 39	20.00	200
DF1151T	C 51	16.00	100
DF1163T	C 63	13.00	50
DF1175T	C 75	18.00	50

Couplings (Steel) **JISC 8330**

Item No.	Size	Weight (kg/ pack)	Standard Pack (pcs)
DF1116T	G 16	15.00	300
DF1122T	G 22	18.00	200
DF1128T	G 28	24.00	200
DF1136T	G 36	23.00	100
DF1142T	G 42	11.00	50
DF1154T	G 54	23.00	50
DF1170T	G 70	13.40	20
DF1182T	G 82	17.80	20
DF1192T	G 92	9.90	10
DF1104T	G 104	7.20	5

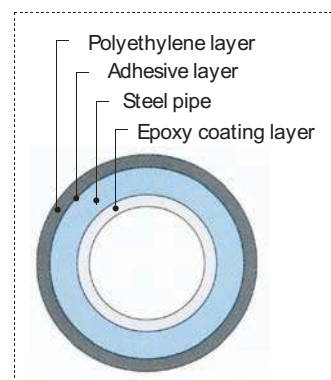
Polyethylene-Lining Steel Pipe

Corrosions resistant steel pipe for cable

Non-Threaded



Threaded



Suitable for use as either expose or burried conduit in areas where high corrosion resistance is required

- The excellent adhesion between the steel pipe and plastic eliminates separation and cracking when the pipe is bent.
- Main use: Water purification plants for water and sewer systems, areas exposed to chemical damage (chemical plants, etc.), Areas exposed to salt damage (coastal facilities, etc.) building rooftops, connecting bridge corridors for schools, etc.

Polyethylene-Lining Steel Pipe

Polyethylene-Lining Steel Pipe (Threaded)

Color if polyethylene outer layer:
Black (Munsell No. N-1.0)

Cat. No	Nominal size	Outside diameter	Steel pipe thickness	Outer covering thickness	Lenght	Nominal weight (kg/ pc)
DWL 16K	G 16	22.20	2.30	0.6	3,660	3.88
DWL 22K	G 22	27.70	2.30	0.6	3,660	5.01
DWL 28K	G 28	34.50	2.50	0.6	3,660	6.95
DWL 36K	G 36	43.10	2.50	0.6	3,660	8.89
DWL 42K	G 42	49.00	2.50	0.6	3,660	10.21
DWL 54K	G 54	60.80	2.80	0.6	3,660	14.35
DWL 70K	G 70	76.40	2.80	0.6	3,660	18.30
DWL 82K	G 82	89.10	2.80	0.6	3,660	21.52
DWL 92K	G 92	101.90	3.50	0.6	3,660	30.71
DWL 04K	G 104	114.60	3.50	0.6	3,660	34.70

Polyethylene-Lining Steel Pipe (Non-Threaded)

Color if polyethylene outer layer:
Black (Munsell No. N-1.0)

Cat. No	Nominal size	Outside diameter	Steel pipe thickness	Outer covering thickness	Lenght	Nominal weight (kg/ pc)
DWL 16P	16	22.20	2.30	0.6	3,670	3.88
DWL 22P	22	27.70	2.30	0.6	3,670	5.01
DWL 28P	28	34.50	2.50	0.6	3,670	6.95
DWL 36P	36	43.10	2.50	0.6	3,670	8.89
DWL 42P	42	49.00	2.50	0.6	3,670	10.21
DWL 54P	54	60.80	2.80	0.6	3,675	14.35
DWL 70P	70	76.40	2.80	0.6	3,675	18.30
DWL 82P	82	89.10	2.80	0.6	3,675	21.52
DWL 92P	92	101.90	3.50	0.6	3,675	30.71
DWL 04P	104	114.60	3.50	0.6	3,675	34.70

Polyethylene-Lining Steel Pipe fittings

Cat.No	Nominal size	D (mm)	L (mm)	Weight (kg)
DWL 16C	G 16	26.0	39	0.05
DWL 22C	G 22	32.0	45	0.08
DWL 28C	G 28	38.5	51	0.11
DWL 36C	G 36	49.5	57	0.22
DWL 42C	G 42	55.5	57	0.26
DWL 54C	G 54	69.5	65	0.45
DWL 70C	G 70	85.0	73	0.67
DWL 82C	G 82	98.0	81	0.90
DWL 92C	G 92	111.5	86	1.19
DWL 04C	G 104	124.5	91	1.46

Normal Bends (Threaded)

- PE Covering



Cat.No	Nominal size	R (mm)	L (mm)	Weight (kg)
DWL 16N	G 16	90	150	0.24
DWL 22N	G 22	110	180	0.41
DWL 28N	G 28	140	215	0.62
DWL 36N	G 36	170	250	0.95
DWL 42N	G 42	210	295	1.40
DWL 54N	G 54	235	345	2.24
DWL 70N	G 70	275	425	3.83
DWL 82N	G 82	310	510	4.80
DWL 92N	G 92	355	575	8.90
DWL 04N	G 104	395	645	9.80

Set screw normal bends bigs

Use for cables which allow small radius bends such as 3300V or 6600V Cv3 and/or CVT

- PE Covering



Cat.No	Nominal size	R (mm)	L (mm)	Weight (kg)
DWL 3361	36	225	355	1.5
DWL 3421	42	315	455	2.2
DWL 3541	54	333	513	3.5
DWL 3701	70	600	830	7.0
DWL 3821	82	600	860	8.6
DWL 3921	92	600	900	12.9
DWL 3041	104	800	1,140	18.4

Couplings

- PE Covering



Set screw normal bends

Use for cables which allow small radius bends such as 600V Cv3 and/or CVT

- PE Covering



Cat.No	Nominal size	D (mm)	L (mm)	Weight (kg)
DWL 316	16	90	150	0.24
DWL 322	22	110	180	0.41
DWL 328	28	140	215	0.62
DWL 336	36	170	250	0.95
DWL 342	42	210	295	1.40
DWL 354	54	235	345	2.24
DWL 370	70	275	425	3.83
DWL 382	82	310	510	4.80
DWL 392	92	355	575	8.90
DWL 304	104	395	645	9.80

Bellmouth pipes

Ground terminals are also available to order

- PE Covering



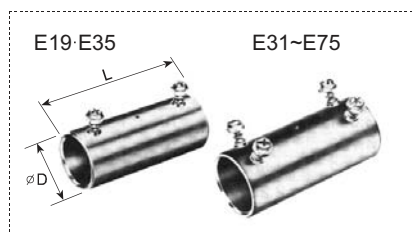
Cat.No	Nominal size	D (mm)	L (mm)	Weight (kg)
DWL 516	16	28	39	0.44
DWL 522	22	35	45	0.57
DWL 528	28	44	51	0.79
DWL 536	36	56	57	1.00
DWL 542	42	64	57	1.15
DWL 554	54	80	65	1.62
DWL 570	70	95	73	2.00
DWL 582	82	108	81	2.42
DWL 592	92	120	86	3.40
DWL 504	104	134	91	3.90

JIS Plain Conduit Fittings

(Unit : mm)

Set screw (threadless) Couplings

- Sheet steel finished with zinc plating

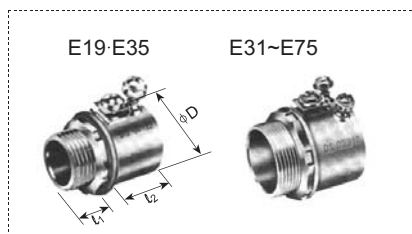


Cat. No.	Size (mm)	D	L	No. of screw	Weight (kg)
DS0119	E19	19.6	57	2	0.07
DS0125	E25	25.9	67	2	0.10
DS0131	E31	32.3	76	4	0.14
DS0139	E39	38.6	86	4	0.24
DS0151	E51	51.3	95	4	0.33
DS0163	E63	64.2	105	4	0.45
DS0175	E75	76.9	114	4	0.57

- Digunakan untuk menyambung antara pipa Conduit, ditengah Couplings ini terdapat "Centre Stop" untuk posisi yang tepat pada penyambungan. Pada Coupling terdapat "Screw" yang ujungnya akan lepas apabila dikunci sampai pada kekencangan yang ditentukan.

Set screw (threadless) Connectors (with grounding terminal)

- Sheet steel finished with zinc plating with lock nut.



Cat. No.	Size (mm)	D	l ₁	l ₂	Weight (kg)
DS02192	E19	19.6	12	20	0.05
DS02252	E25	25.9	13	20	0.07
DS02312	E31	32.3	14	23	0.09
DS02392	E39	38.6	16	25	0.13
DS02512	E51	51.3	16	25	0.19
DS02632	E63	64.2	18	30	0.27
DS02752	E75	76.9	20	35	0.35

- Digunakan untuk menyambung Conduit dengan box, dilengkapi dengan hubungan tanah, lock nut dan "Screw".

Washer of pressure terminal

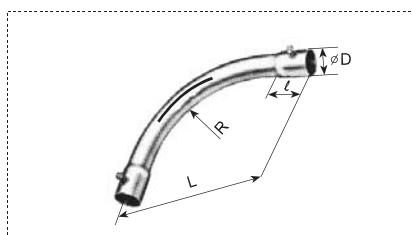
- Galvanized steel



DS0070	Suitable wire	Connecting wire
E19 · E25	single strand $\phi 1.6 \sim \phi 2.0$	1
E31~E75	single strand $\phi 2.0 \sim \phi 2.6$	1

Set screw threadless Bends

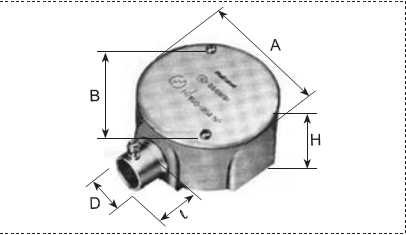
- Sheet steel finished with zinc plating



Cat. No.	Size (mm)	D	L	I	R	Weight (kg)
DS0325	E25	25.9	170	34	120	0.4
DS0331	E31	32.3	210	49	150	0.6
DS0339	E39	38.6	255	44	180	1.0
DS0351	E51	51.3	330	49	230	1.6
DS0363	E63	64.2	410	55	290	2.0
DS0375	E75	76.9	500	60	350	3.0

- Digunakan untuk sambungan antara Conduit ditempat belokan/siku.

Set screw (threadless)
Circular surface boxes
(one way)

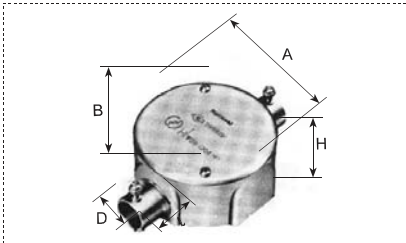


- Sheet steel finished with zinc plating

Cat. No.	Size (mm)	H	A	B	I	D	Weight (kg)
DS65191	E 19	40.5	89.5	73	20	23	0.38
DS65251	E 25	40.5	89.5	73	22	29.5	0.39
DS65311	E 31	45	100	84	23	36	0.49

- Digunakan untuk ujung/akhir Conduit, pada mounting lighting fixture atau kabel.

Set screw (threadless)
circular surface boxes
(two way;through)

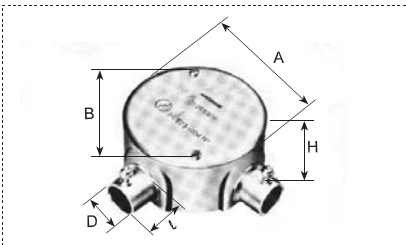


- Sheet steel finished with zinc plating

Cat. No.	Size (mm)	H	A	B	I	D	Weight (kg)
DS66191	E 19	40.5	89.5	73	20	23	0.41
DS66251	E 25	40.5	89.5	73	22	29.5	0.42
DS66311	E 31	45	100	84	23	36	0.53

- Digunakan untuk penyambungan Conduit model lurus (through) pada mounting lighting fixture/sambungan kabel.

Set screw (threadless)
circular surface boxes
(one way ; angle)

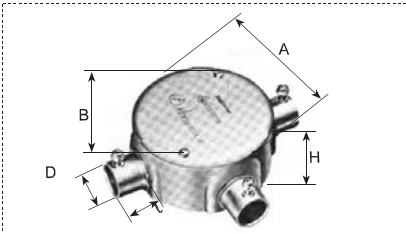


- Sheet steel finished with zinc plating

Cat. No.	Size (mm)	A	B	H	I	D	Weight (kg)
DS69191	E 19	89.5	73	40.5	20	23	0.48
DS69251	E 25	89.5	73	40.5	22	29.5	0.49
DS69311	E 31	100	84	45	23	36	0.62

- Digunakan untuk penyambungan Conduit model L (siku), pada mounting lighting fixture atau sambungan kabel.

Set screw (threadless)
circular surface boxes
(three way)



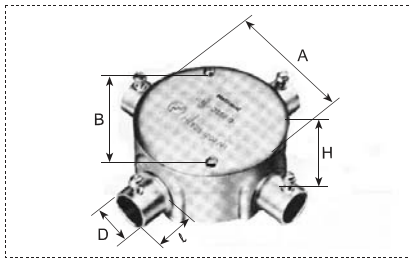
- Sheet steel finished with zinc plating

Cat. No.	Size (mm)	H	A	B	I	D	Weight (kg)
DS67191	E 19	40.5	89.5	73	20	23	0.45
DS67251	E 25	40.5	89.5	73	22	29.5	0.46
DS67311	E 31	45	100	84	23	36	0.58

- Digunakan untuk penyambungan Conduit Model T pada mounting lighting fixture atau sambungan kabel.

Set screw (threadless) circular surface boxes (four way)

- Sheet steel finished with zinc plating

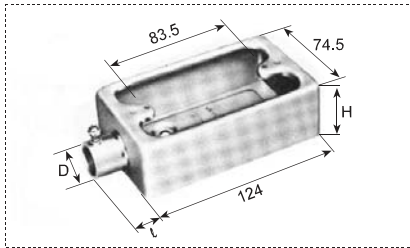


Cat. No.	Size (mm)	H	A	B	I	D	Weight (kg)
DS68191	E 19	40.5	89.5	73	20	23	0.48
DS68251	E 25	40.5	89.5	73	22	29.5	0.49
DS68311	E 31	45	100	84	23	36	0.62

- Digunakan untuk penyambungan Conduit cabang 4 (model +) pada mounting lighting fixture atau sambungan kabel.

Set screw (threadless) surface switch boxes (one way)

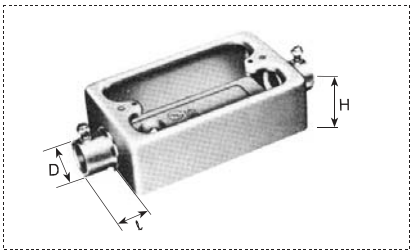
- Sheet steel finished with zinc plating



Cat. No.	Size (mm)	H	I	D	Weight (kg)
DS70191	E 19	40.5	20	23	0.42
DS70251	E 25	50.5	22	29.5	0.48

Set screw (threadless) surface switch boxes (two way)

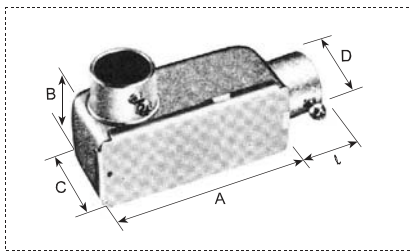
- Sheet steel finished with zinc plating



Cat. No.	Size (mm)	H	I	D	Weight (kg)
DS71191	E 19	40.5	20	23	0.45
DS71251	E 25	50.5	22	29.5	0.52

Set screw (threadless) universal LL type

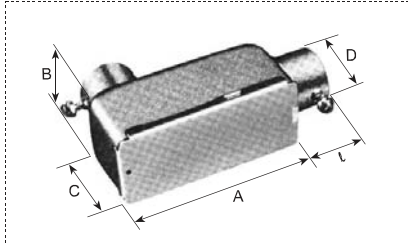
- Sheet steel finished with zinc plating



Cat. No.	Size (mm)	A	B	C	D	I	Weight (kg)
DS62191	E 19	90	34	35	23	18	0.24
DS62251	E 25	95	41	42	29.5	20	0.31
DS62311	E 31	110	45.8	47.5	32.3	20	0.42

Set screw (threadless) universal LB type

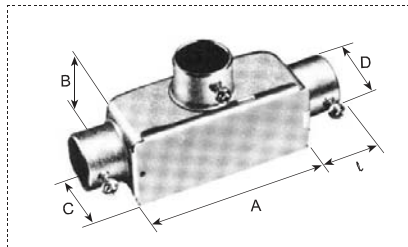
- Sheet steel finished with zinc plating



Cat. No.	Size (mm)	A	B	C	D	L	Weight (kg)
DS63191	E 19	90	34	35	23	18	0.24
DS63251	E 25	95	41	42	29.5	20	0.31
DS63311	E 31	110	45.8	47.5	32.3	20	0.42

Set screw (threadless) universal T type

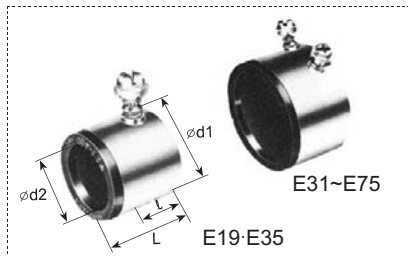
- Sheet steel finished with zinc plating



Cat. No.	Size (mm)	A	B	C	D	L	Weight (kg)
DS64191	E 19	90	34	35	23	18	0.27
DS64251	E 25	95	41	42	29.5	20	0.34
DS64311	E 31	110	45.8	47.5	32.3	20	0.46

Set screw (threadless) bushing (for conduit ends)

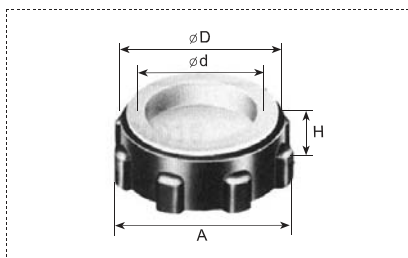
- Sheet steel finished with zinc plating
for E31 to E75, 2 set screw are provide



Cat. No.	Size (mm)	L	d1	d2	Weight (kg)
DS5419	E 19	23	13.5	19.6	0.02
DS5425	E 25	23	13.5	25.9	0.03
DS5431	E 31	25	14.5	32.3	0.04
DS5439	E 39	35	23.5	38.6	0.06
DS5451	E 51	37	24.5	51.3	0.09
DS5463	E 63	38	27	64.2	0.27
DS5475	E 75	38	27	76.9	0.32

Plastic Bushing (with cap)

- Plastic

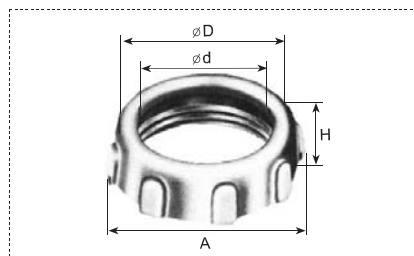


Cat. No.	Size (mm)	A	H	D	d	Weight (kg)
DS1719	E 19	27	9	23	15.7	0.002
DS1725	E 25	34	10	30	21.8	0.004
DS1731	E 31	41	12	36	28	0.006
DS1739	E 39	49	13	43	34.7	0.008
DS1751	E 51	64	15	57	47.4	0.016
DS1763	E 63	78	17	70	59.2	0.024
DS1775	E 75	92	20	83	71.9	0.036

- Digunakan pada tiap-tiap ujung Conduit, untuk mencegah kerusakan-kerusakan/luka pada kabel sewaktu kabel ditarik melalui

Bushing

- Malleable cast iron with zinc electroplated

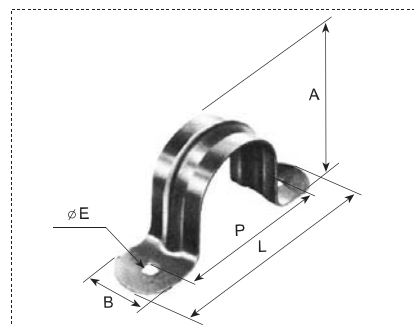


Cat. No.	Size (mm)	A	H	D	d	Weight (kg)
DS1419	E 19	26.5	9	23	16	0.01
DS1425	E 25	33	10	30	22	0.02
DS1431	E 31	41	12	36	29	0.03
DS1439	E 39	46	13	43	35	0.04
DS1451	E 51	60	15	57	48	0.05
DS1463	E 63	74	17	70	60	0.10
DS1475	E 75	88	20	83	72	0.18

- Digunakan pada tiap-tiap ujung Conduit untuk mencegah kerusakan-kerusakan/luka pada kabel padad waktu kabel ditarik melalui Conduit.

Saddles

- Sheet steel with zinc electroplating

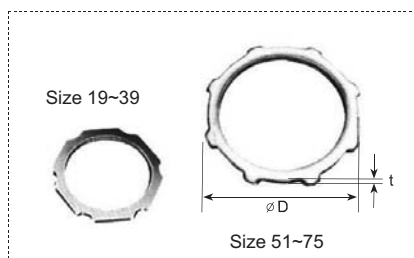


Cat. No.	Size (mm)	A	B	L	P	E	Weight (kg)
DS1619	E 19	17.6	15	60	40	5	0.009
DS1625	E 25	23.9	20	70	50	5	0.014
DS1631	E 31	30.3	25	85	60	5.5	0.029
DS1639	E 39	36.6	25	95	70	5.5	0.032
DS1651	E 51	49.3	25	110	85	5.5	0.055
DS1663	E 63	62.0	25	130	105	5.5	0.065
DS1675	E 75	74.7	30	150	120	6.5	0.090

- Digunakan untuk menempatkan Conduit pada bahan bangunan (sebagai klem)

Lock nuts

- Sheet steel with zinc electroplating



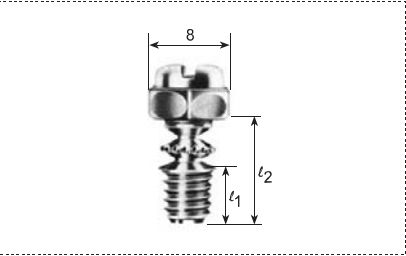
Cat. No.	Size (mm)	D	t	Weight (kg)
DS5419	E 19	24	3.2	0.005
DS5425	E 25	31.5	3.2	0.007
DS5431	E 31	38	3.6	0.013
DS5439	E 39	45	3.6	0.017
DS5451	E 51	65	5.0	0.033
DS5463	E 63	79	5.0	0.042
DS5475	E 75	93	5.0	0.054

- Digunakan untuk mengunci sambungan antara Conduit dan Box.

E1 - E39 : HEXAGONAL Type
E51 - E75 : GEAR Type

Set screw

- With the best tightening condition, the head of the set screw is shared off. Differences in the method of tightening are eliminated, secure tightening is not forgotten, and secure connections can be made.
- Zinc electroplated



Cat. No.	length (mm)	l ₁	l ₂	Weight (kg)
DS0015	5	10.2	5	0.002
DS0016	6	11.2	6	0.002
DS0017	7.4	12.0	7.4	0.003

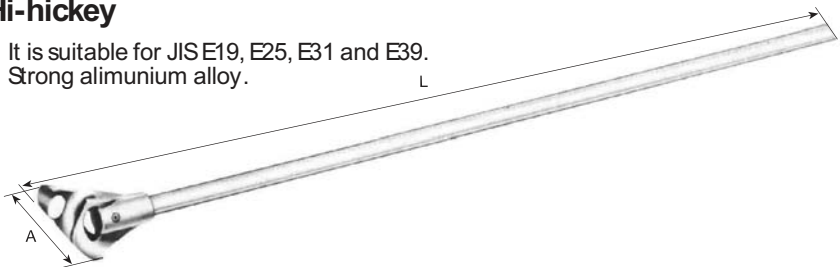
Set screw length and applicable products

Cat. No.	Length	Applicable Product
DS0015	5mm	Coupling E19, E31, ground connector E19, E31 Bushing (for conduit end) E19, E25 Circular surface box E19, E31. surface switch box E19 Entrance cap, universal E19
DS0016	6mm	Coupling E25, E39-E75, ground connector E25, E39-E75 Bushing (for conduit end) E39-E75 Circular surface box E25. surface switch box E25 Entrance cap, universal E25
DS0017	7.4mm	Normal Bend E25-E75 All product type of cast iron fittings

Labor saving tools

Hi-hickey

- It is suitable for JIS E19, E25, E31 and E39.
Strong aliminium alloy.

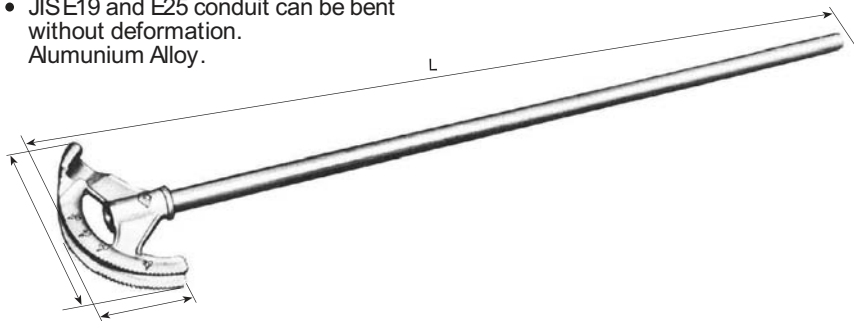


Cat. No.	Size	L	A	Weight (kg)
DS0029	E19	1115	100	1.6
DS0030	E25	1122	119	2.5
DS0031	E31	1274	160	3.7
DS0032	E39	1490	190	4.5

- Digunakan untuk meluruskan atau mengatur bengkokan/lengkungan Conduit E19-

Hi-bender

- JISE19 and E25 conduit can be bent without deformation.
Alumunium Alloy.

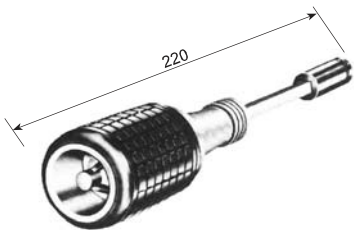


Cat. No.	Size	L	A	B	Weight (kg)
DS0019	E19	1,245	220	124	2.0
DS0025	E25	1,270	290	165	3.0

- Digunakan untuk membengkokkan Conduit E19 dan E25 hingga mencapai radius 90 .

Box screwdriver (with reamer)

- Used for champering the inner surface of conduit (19,25).



Cat. No.	Weight (kg)
DS0010	0.22

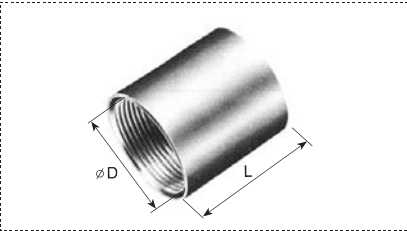
- Digunakan untuk menghaluskan permukaan luar dan dalam ujung Conduit yang dipotong.

JIS Thin Wall conduit fitting

(Unit : mm)

Couplings

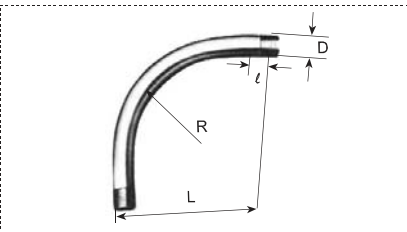
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	D	L	Weight (kg/pack)	Standard Pack (pcs)
DF1119T	19	23	28	15.00	500
DF1125T	25	29.3	34	15.00	300
DF1131T	31	36	38	14.00	200
DF1139T	39	42.5	42	20.00	200
DF1151T	51	56	48	16.00	100
DF1163T	63	70	54	13.00	50
DF1175T	75	83	60	18.00	50

Normal Bends

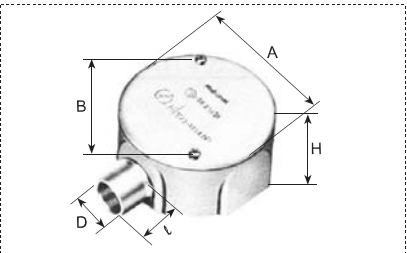
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	D	I	L	R	Weight (kg)
DF1119	25	25.4	16	170	120	0.27
DF1125	31	31.8	18	210	150	0.34
DF1131	39	38.1	20	255	180	0.58
DF1139	51	50.8	23	330	230	0.01
DF1151	63	63.5	26	410	290	2.06
DF1163	75	76.2	29	500	350	3.13

Circular surface boxes (one way)

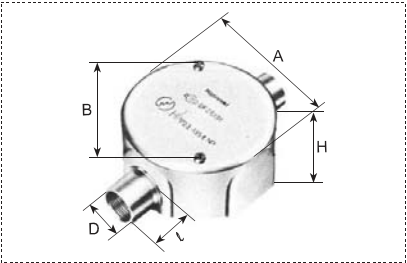
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	I	D	Weight (kg)
DF25191	19	40.5	89.5	73	20	23	0.38
DF25251	25	40.5	89.5	73	22	29.5	0.39
DF25311	31	45	100	84	23	36	0.49

Circular surface boxes (one way ; through)

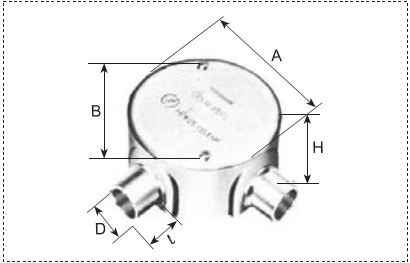
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	I	D	Weight (kg)
DF26191	19	40.5	89.5	73	20	23	0.41
DF26251	25	40.5	89.5	73	22	29.5	0.42
DF26311	31	45	100	84	23	36	0.54

Circular surface boxes (two way ; angle)

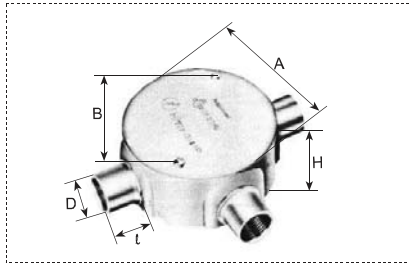
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	l	D	Weight (kg)
DF29191	19	40.5	89.5	73	20	23	0.41
DF29251	25	40.5	89.5	73	22	29.5	0.42
DF29311	31	45	100	84	23	36	0.54

Circular surface boxes (three way)

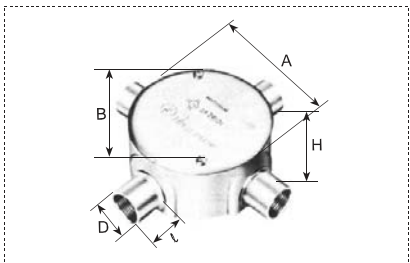
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	l	D	Weight (kg)
DF27191	19	40.5	89.5	73	20	23	0.45
DF27251	25	40.5	89.5	73	22	29.5	0.46
DF27311	31	45	100	84	23	36	0.58

Circular surface boxes (four way)

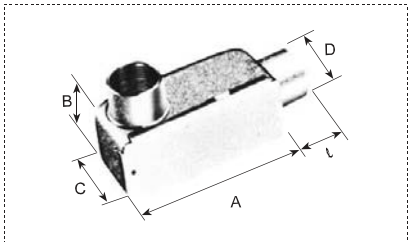
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	l	D	Weight (kg)
DF28191	19	40.5	89.5	73	20	23	0.48
DF28251	25	40.5	89.5	73	22	29.5	0.49
DF28311	31	45	100	84	23	36	0.63

Universal LL type

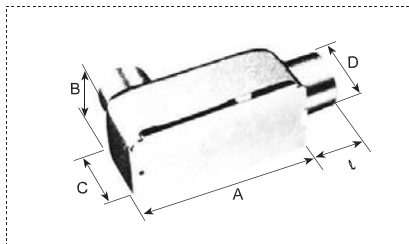
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	A	B	C	D	l	Weight (kg)
DF22191	19	90	33.8	35	23	20	0.24
DF22251	25	95	40.8	42	29.5	22	0.33
DF22311	31	110	47.5	45.8	36	22	0.425

Universal LB type

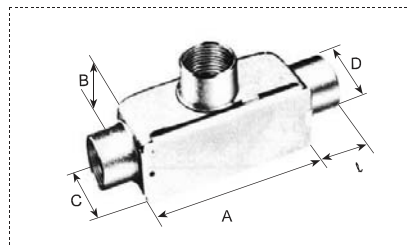
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	A	B	C	D	l	Weight (kg)
DF23191	19	90	33.8	35	23	20	0.24
DF23251	25	95	40.8	42	29.5	22	0.33
DF23311	31	110	47.5	45.8	36	22	0.42

Universal T type

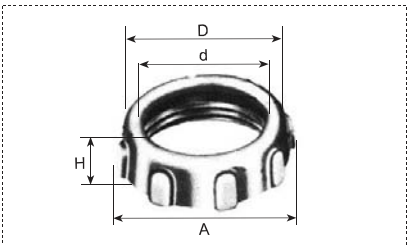
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	A	B	C	D	l	Weight (kg)
DF24191	19	90	33.8	35	23	20	0.27
DF24251	25	95	40.8	42	29.5	22	0.37
DF24311	31	110	47.5	45.8	36	22	0.45

Bushings

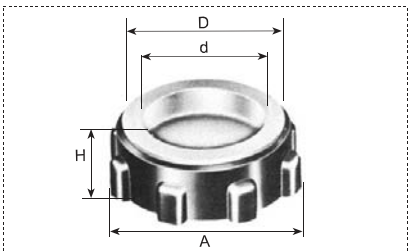
- Cast iron with zinc-electroplating



Cat. No.	Nominal Size	d	A	H	D	Weight (kg)
DS1419	19	16	26.5	9	23	0.01
DS1425	25	22	33	10	30	0.02
DS1431	31	29	41	11	36	0.03
DS1439	39	35	46	12	43	0.04
DS1451	51	48	60	15	57	0.05
DS1463	63	60	74	17	70	0.10
DS1475	75	72	88	20	83	0.18

Plastic bushing with caps

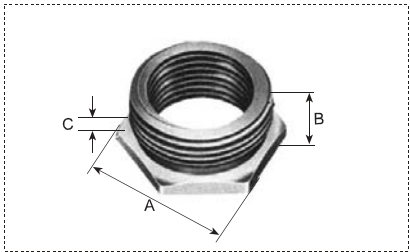
- Plastic



Cat. No.	Nominal Size	d	A	H	D	Weight (kg)
DS1719	19	15.7	27	9	23	0.002
DS1725	25	21.8	3	10	30	0.004
DS1731	31	28	41	11	36	0.006
DS1739	39	34.7	49	12	43	0.008
DS1751	51	47.4	64	15	57	0.016
DS1763	63	59.2	78	17	70	0.024
DS1775	75	71.9	92	20	83	0.036

Reducers

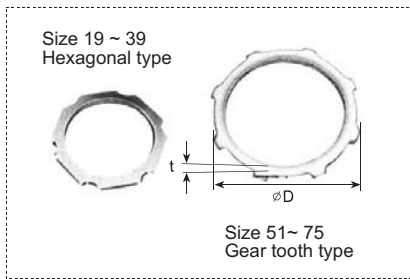
- Cast iron with zinc-electroplating



Cat. No.	Nominal Size	A	B	C	Weight (kg)
DF5225	25 - 19	28	15.17	4	0.024
DF5231	31 - 25	35	.5	4	0.040
DF5239	39 - 31	43.5	20	4.5	0.054
DF5251	51 - 39	52.5	21.5	5	0.080

Lock nuts

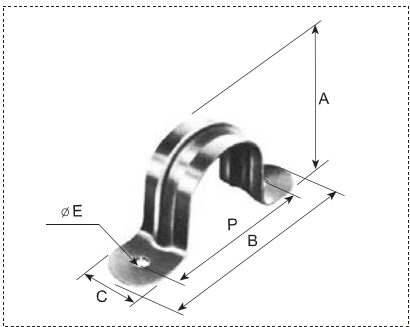
- Sheet steel with zing electroplating



Cat. No.	Nominal Size	D	t	Weight (kg)
DS1219	19	24	3.2	0.005
DS1225	25	31.5	3.2	0.007
DS1231	31	38	3.6	0.013
DS1239	39	45	3.6	0.017
DS1251	51	65	5	0.033
DS1263	63	79	5	0.042
DS1275	75	93	5	0.054

Saddles

- Sheet steel with zing electroplating



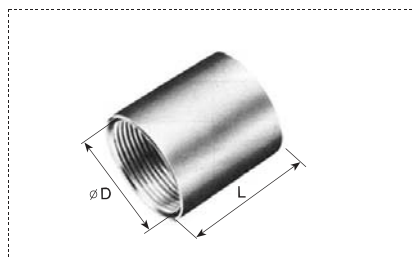
Cat. No.	Nominal Size	A	B	C	P	E	Weight (kg)
DS1619	19	17.6	60	15	40	5	0.009
DS1625	25	23.9	70	20	50	5	0.014
DS1631	31	30.3	85	25	60	5.5	0.029
DS1639	39	36.6	95	25	70	5.5	0.032
DS1651	51	49.3	110	25	85	5.5	0.055
DS1663	63	62.0	130	25	105	5.5	0.065
DS1675	75	47.7	150	30	120	6.5	0.090

JIS Thick Wall Conduit Fittings

(Unit : mm)

Couplings

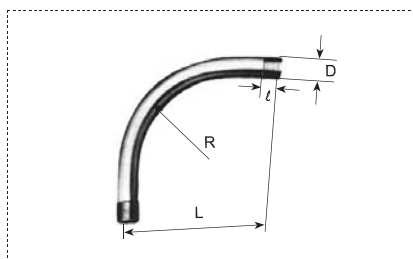
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	D	L	Weight (kg/pack)	Standard Pack (pcs)
DF1116T	16	25	38	15.00	300
DF1122T	22	31	44	18.00	200
DF1128T	28	37.5	50	24.00	200
DF1136T	36	48.5	56	23.00	100
DF1142T	42	54.5	56	11.00	50
DF1154T	54	68	64	23.00	50
DF1170T	70	84	72	13.40	20
DF1182T	82	97	80	17.80	20
DF1192T	92	110.5	85	9.90	10
DF1104T	104	123.5	90	7.20	5

Normal Bends

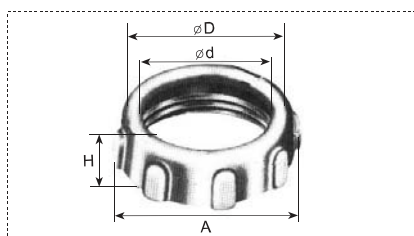
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	D	I	L	R	Weight (kg/pack)	Standard Pack (pcs)
DF1316T	16	21.3	18	150	90	15.00	50
DF1322T	22	26.5	20	180	110	18.00	50
DF1328T	28	33.3	23	215	140	24.00	25
DF1336T	36	41.9	26	250	170	23.00	15
DF1342T	42	47.8	26	295	210	11.00	10
DF1354T	54	59.6	30	345	235	23.00	-
DF1370T	70	75.2	34	425	275	13.40	-
DF1382T	82	87.9	38	510	310	17.80	-
DF1392T	92	100.7	39	575	355	9.90	-
DF1304T	104	113.4	42	645	395	7.20	-

Bushings

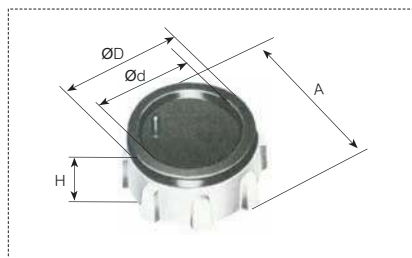
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	d	A	H	D	Weight (kg)
DF1416	16	16	26	9	24	0.011
DF1422	22	22	33	10	30	0.017
DF1428	28	28	40	12	37	0.028
DF1436	36	36	49	13	46	0.040
DF1442	42	42	55	15	52	0.052
DF1454	54	53	70	16	65	0.088
DF1470	70	68	86	18	81	0.140
DF1482	82	81	100	20	95	0.210
DF1492	92	93	116	22	110	0.390
DF1404	104	105	131	24	125	0.490

Insulated Bushings

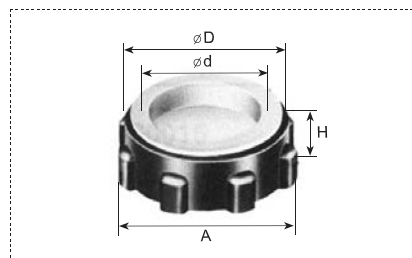
- Cast iron with zinc-electroplating



Cat. No.	Nominal Size	d	A	H	D	Weight (kg/pack)
DF1516	16	15.4	26	13	24	15.00
DF1522	22	20.9	33	14	30	18.00
DF1528	28	26.3	40	15.5	37	24.00
DF1536	36	33.6	49	16.1	46	23.00
DF1542	42	38.6	55	18.2	52	11.00
DF1554	54	50.3	70	20.3	65	23.00
DF1570	70	63.4	86	22.4	81	13.40
DF1582	82	74.9	100	24.5	95	17.80
DF1592	92	87.3	116	26.6	110	9.90
DF1504	104	100	131	28.7	125	7.20

Plastic bushing with caps

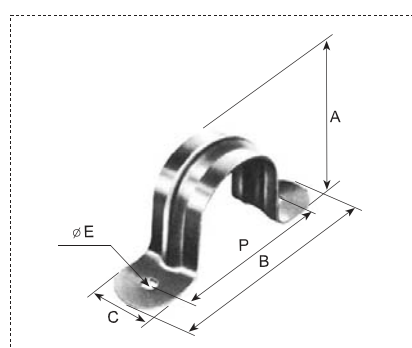
- Plastic



Cat. No.	Nominal Size	d	A	H	D	Weight (kg)
DF1716	16	16	27	9	24	0.003
DF1722	22	22	33	10	30	0.004
DF1728	28	28	41	12	37	0.007
DF1736	36	36	51	13	46	0.009
DF1742	42	42	57	15	52	0.014
DF1754	54	53	70.5	16	65	0.021
DF1770	70	68	87.5	18	81	0.035
DF1782	82	81	100.3	20	95	0.052
DF1792	92	93	118	22	110	0.074
DF1704	104	105	135	24	125	0.107

Saddles

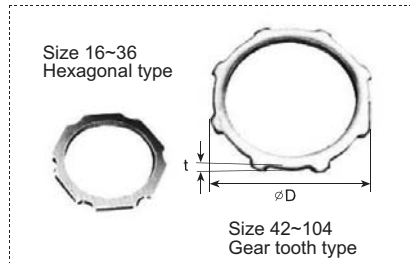
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	A	B	C	P	E	Weight (kg)
DF1616	16	19.5	65	20	45	5	0.012
DF1622	22	25	75	20	55	5	0.014
DF1628	28	31.8	90	25	65	5.5	0.030
DF1636	36	40.4	100	25	75	5.5	0.036
DF1642	42	46.3	110	25	85	5.5	0.050
DF1654	54	58.1	125	25	100	5.5	0.065
DF1670	70	73.7	150	30	120	6.5	0.090
DF1682	82	86.4	165	35	135	6.5	0.120
DF1692	92	100.1	180	35	150	6.5	0.150
DF1604	104	112.8	200	35	170	6.5	0.160

Lock nuts

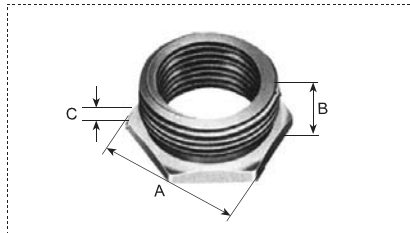
- 16~82;
Sheet steel finished with zinc electroplating
- Cast iron finished with zinc-electroplating



Cat. No.	Nominal Size	D	t	Weight (kg)
DF1216	16	27	3.6	0.009
DF1222	22	33	3.6	0.012
DF1228	28	41	4.5	0.019
DF1236	36	49	4.5	0.020
DF1242	42	61	4.5	0.031
DF1254	54	74	5	0.038
DF1270	70	93	5	0.061
DF1282	82	106	5	0.065
DF1292	92	121	5	0.24
DF1204	104	135	5	0.26

Reducers

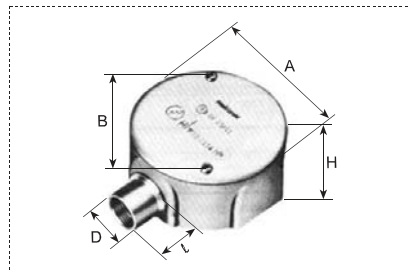
- Cast iron with zinc-electroplating



Cat. No.	Nominal Size	A	B	C	Weight (kg)
DF5222	22 - 16	28	15	4	0.035
DF5228	28 - 22	35	17.5	4	0.040
DF5236	36 - 28	43.5	20	4.5	0.080
DF5242	42 - 36	52.5	21.5	5	0.100

Circular surface boxes (one way)

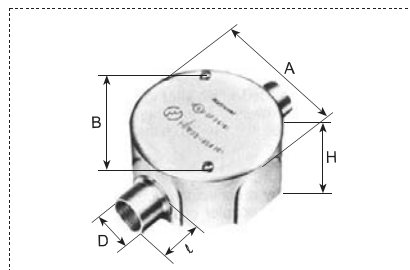
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B		R	Weight (kg)
DF25161	16	40.5	89.5	73	20	25	0.38
DF25221	22	40.5	89.5	73	22	31	0.39
DF25281	28	45	100	84	23	37.5	0.50

Circular surface boxes (two way:through)

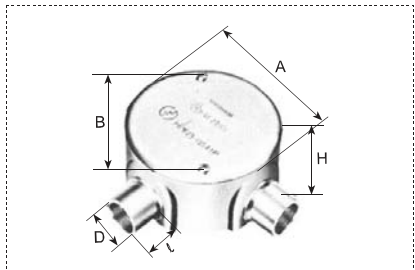
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B		R	Weight (kg)
DF26161	16	40.5	89.5	73	20	25	0.41
DF26221	22	40.5	89.5	73	22	31	0.42
DF26281	28	45	100	84	23	37.5	0.56

Circular surface boxes (two way:angle)

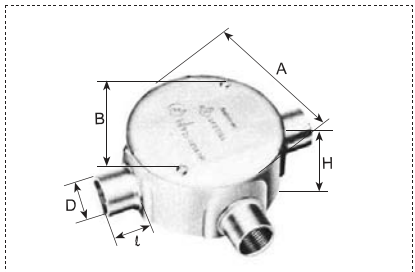
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	l	R	Weight (kg)
DF29161	16	40.5	89.5	73	20	25	0.41
DF29221	22	40.5	89.5	73	22	31	0.42
DF29281	28	45	100	84	23	37.5	0.56

Circular surface boxes (three way)

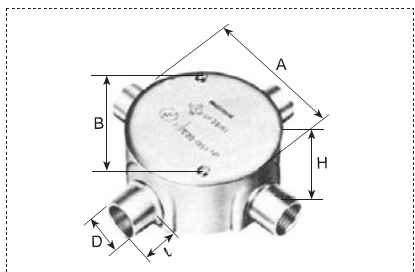
- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	l	R	Weight (kg)
DF27161	16	40.5	89.5	73	20	25	0.45
DF27221	22	40.5	89.5	73	22	31	0.46
DF27281	28	45	100	84	23	37.5	0.61

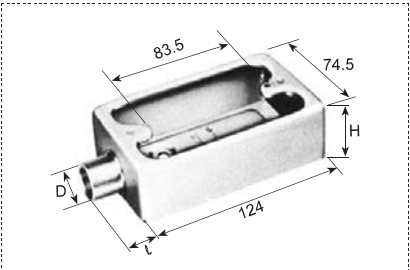
Circular surface boxes (four way)

- Sheet steel finished with zinc plating



Cat. No.	Nominal Size	H	A	B	l	R	Weight (kg)
DF28161	16	40.5	89.5	73	20	25	0.48
DF28221	22	40.5	89.5	73	22	31	0.49
DF28281	28	45	100	84	23	37.5	0.67

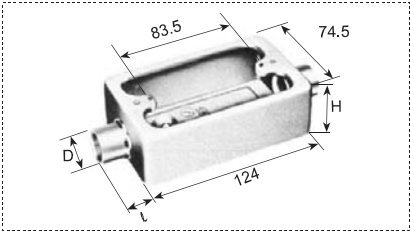
Surface switch boxes
(one way)



- Sheet steel finished with zinc plating

Cat. No.	Nominal Size	H	I	D	Weight (kg)
DF30161	16	40.5	20	25	0.38
DF30221	22	50.5	22	31	0.44

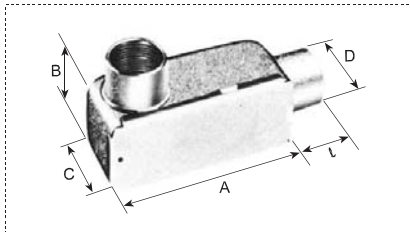
Surface switch boxes
(two way)



- Sheet steel finished with zinc plating

Cat. No.	Nominal Size	H	I	D	Weight (kg)
DF31161	16	40.5	20	25	0.41
DF31221	22	50.5	22	31	0.49

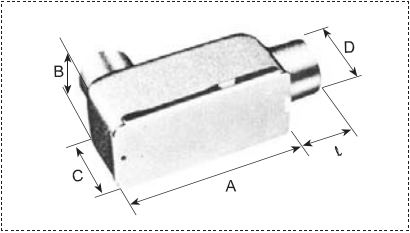
Universal LL type



- Sheet steel finished with zinc plating

Cat. No.	Nominal Size	A	B	C	D	I	Weight (kg)
DF22161	16	90	33.8	35	25	20	0.25
DF22221	22	95	40.8	42	31	22	0.34
DF22281	28	110	45.8	47.5	37.5	22	0.42

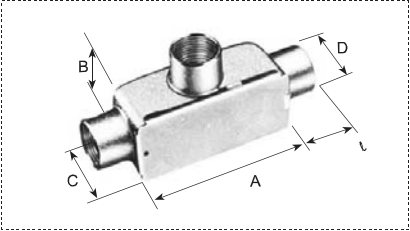
Universal LB type



- Sheet steel finished with zinc plating

Cat. No.	Nominal Size	A	B	C	D	I	Weight (kg)
DF23161	16	90	33.8	35	25	20	0.25
DF23221	22	95	40.8	42	31	22	0.34
DF23281	28	110	45.8	47.5	37.5	22	0.42

Universal T type



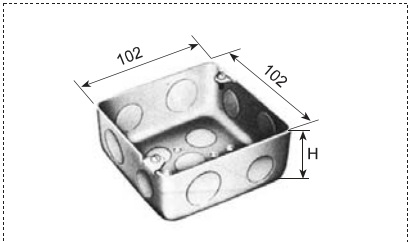
- Sheet steel finished with zinc plating

Cat. No.	Nominal Size	A	B	C	D	I	Weight (kg)
DF24161	16	90	33.8	35	25	20	0.28
DF24221	22	95	40.8	42	31	22	0.39
DF24281	28	110	45.8	47.5	37.5	22	0.45

Steel boxes

Square outlet boxes (medium)

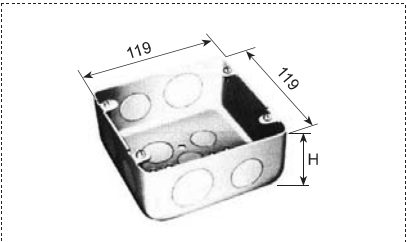
Standard type



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS3744	44	16 (19) 22 (25)	0.30
DS3754	54	22 (25) 28 (31)	0.35

Square outlet boxes (large)

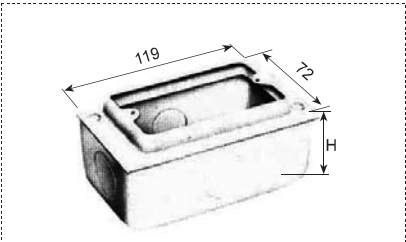
Standard type



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS3844	44	16 (19) 22 (25)	0.40
DS3854	54	22 (25) 28 (31)	0.45

Switch boxes (with cover)

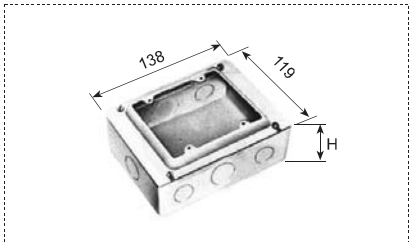
For 1 switch



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS4911	44	16 (19) 22 (25)	0.32

Switch boxes (with cover)

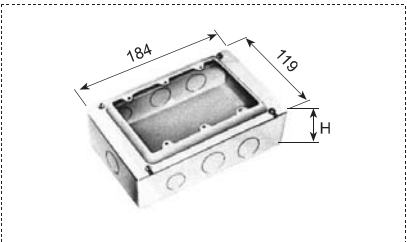
For 2 switch



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS4912	44	16 (19) 22 (25)	0.56

Switch boxes (with cover)

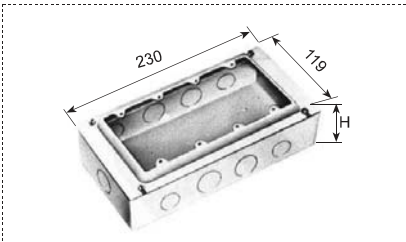
For 3 switch



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS4913	44	16 (19) 22 (25)	0.70

Switch boxes (with cover)

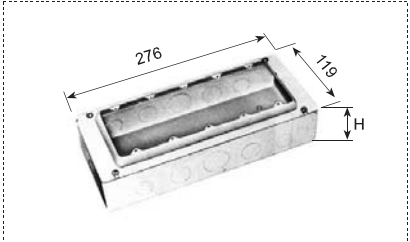
For 4 switch



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS4914	54	16 (19) 22 (25)	1.0

Switch boxes (with cover)

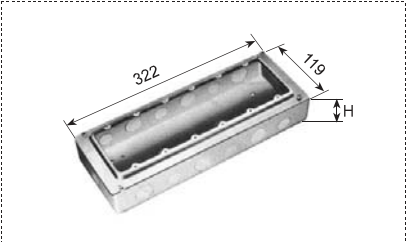
For 5 switch



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS4915	54	16 (19) 22 (25) 28 (31)	1.1

Switch boxes (with cover)

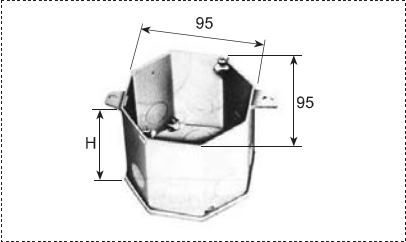
For 6 switch



Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS4916	54	16 (19) 22 (25)	1.34

Octagonal concrete boxes

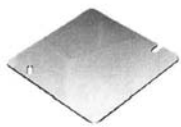
Sides; knock out 16(19)

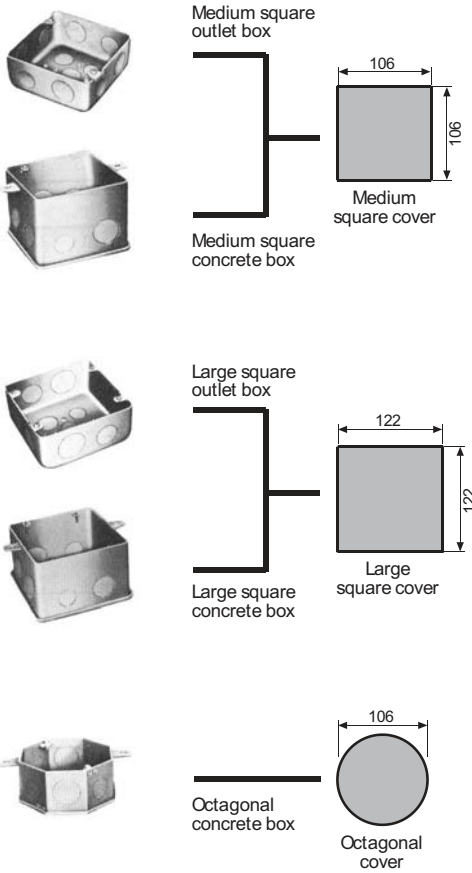


Cat. No.	Size (H) (mm)	Knock Out	Weight (kg)
DS36761	76	16 (19)	0.50

JIS Box cover plates

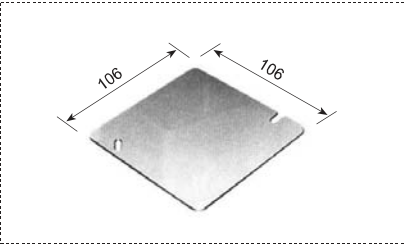
Cover type and uses

Name	Uses	Screw interval dimension
Blank cover	Used as a cover when a lighting fixture or switch is not installed.	
Round-opening cover	Used as a lighting fixture or telephone wire plate. Choice of three heights, standart 13mm, 5mm or flat cover, to adjust surface height.	
Fixture cover		
Switch cover		



Square flat cover

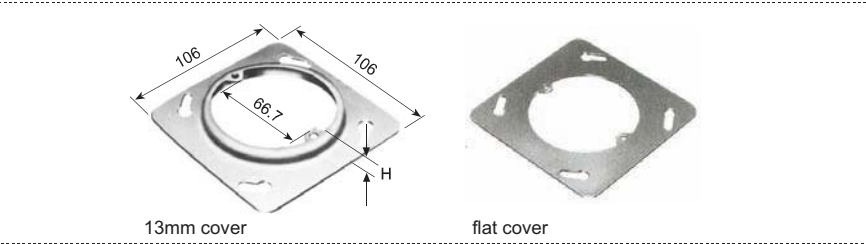
For medium square outlet box o square concrete box



Cat. No.	Weight (kg)
DS4211	0.14

Round opening covers

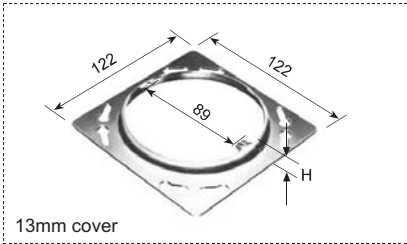
- For medium square outlet box or square concrete box
- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4311	13mm cover	13	0.10
DS43112	Flat cover	1.6	0.09

Round opening covers

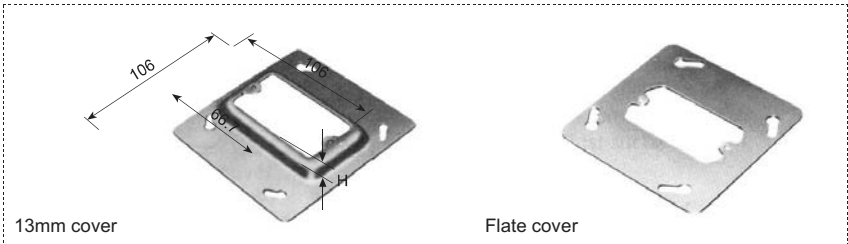
- For large square outlet box or square concrete box
- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4412	13mm cover	13	0.11

Rectangular opening cover

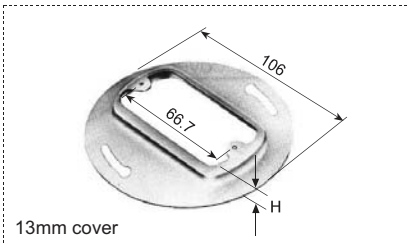
- For medium square outlet box or square concrete box
- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4511	13mm cover	13	0.12
DS45112	Flate cover	1.6	0.11

Round opening covers

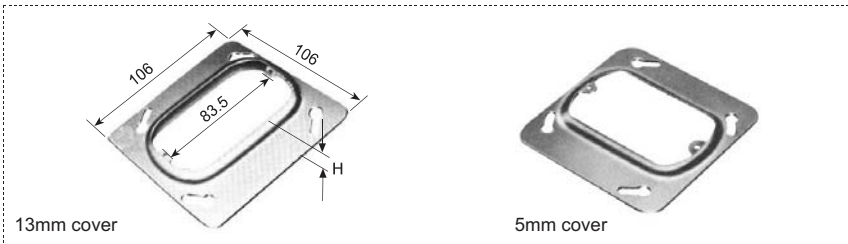
- For octagonal concrete box
- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4513	13mm cover	13	0.10

Switch cover for 1 switch

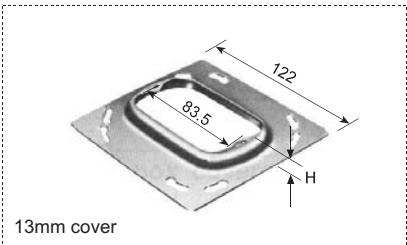
- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4611	13mm cover	13	0.10
DS46115	5mm cover	6.6	0.10

Switch cover for 1 switch

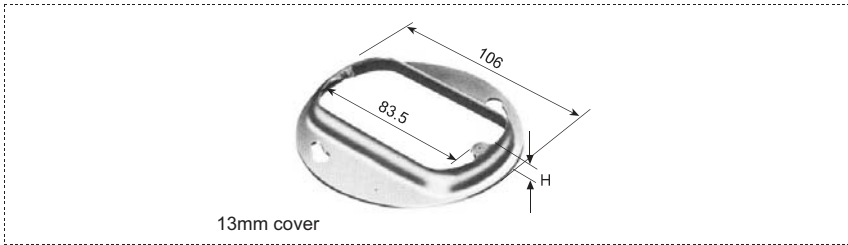
- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4612	13mm cover	13	0.15

Switch cover for octagonal concrete box (1 switch)

- Steel sheet zinc-electroplated



Cat. No.	Type	H	Weight (kg)
DS4613	13mm cover	13	0.07

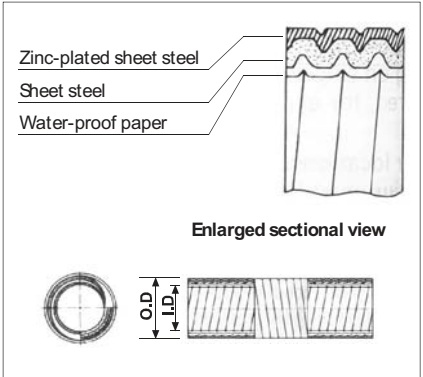
Hi-Flex White



Konstruksi

Hi Flex White adalah Flexible Conduit listrik yang terdiri dari tiga lapisan yaitu: Zinc plate sheet steel, sheet steel dan water-proof paper yang tahan karat dan percikan air. Digunakan pada lokasi yang banyak belokan dan dapat dihubungkan dengan Conduit E type maupun yang type Threaded. (C & G)

Zinc-plated sheet steel
Sheet steel
Water-proof paper



Cat. No.	Size	O.D (mm)	O.D tolerance (mm)	Min. ID (mm)	1 coil lenght (m)	Weight (kg)		Equivalent Conduit	
						Per coil	Per meter	Thin Steel	Thick Steel
DA117SR	17	21.5	0.2	16.8	50	23.5	0.47	19	16
DA124SR	24	28.8	0.2	23.8	25	17.0	0.68	25	22
DA130SR	30	34.9	0.2	29.3	25	22.0	0.88	31	28
DA138SR	38	42.9	0.4	37.6	15	16.5	1.10	39	36
DA150SR	50	54.9	0.4	49.1	15	22.0	1.47	51	42
DA163SR	63	69.1	0.6	62.6	10	24.0	2.40	63	54
DA176SR	76	82.9	0.6	76.0	10	26.0	2.60	75	70
DA183SR	83	88.1	0.6	81.0	10	27.0	2.70	-	82
DA101SR	101	107.3	0.6	100.4	10	32.0	32.0	-	92.104

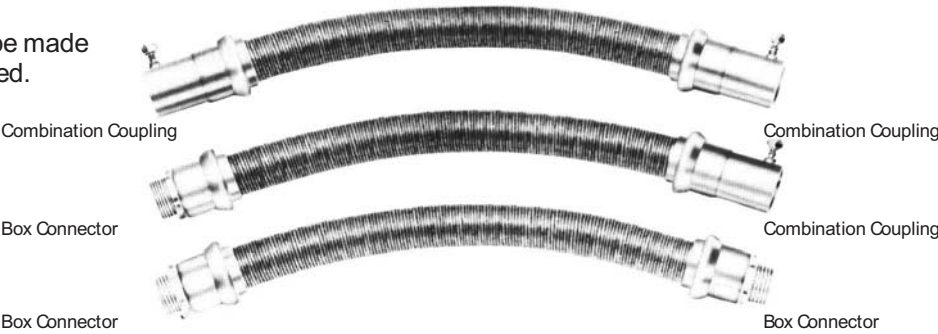
Small coil product

Hi-Flex White in size 17, 24 and 30 are available in convenient small coil of 10-m lenght.



Made to order

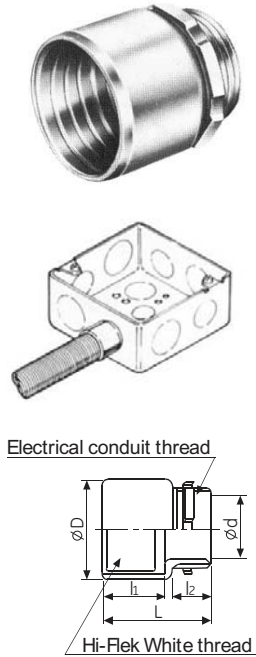
These product can be made to the lenghts ordered.



Hi-Flex White fitting

Box Connector

Digunakan untuk menyambung antara Hi-Flex dengan Box.



For Thin steel conduits

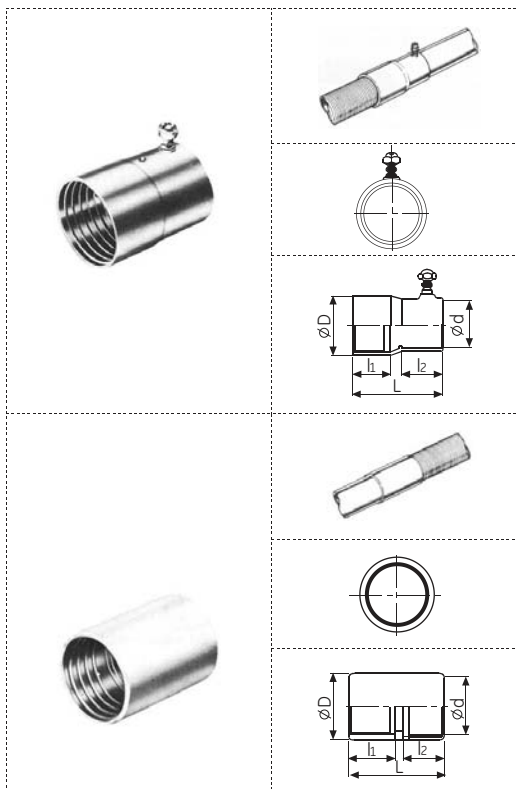
Cat. No.	Size	ØD (mm)	Ød (mm)	L (mm)	l ₁ (mm)	l ₂ (mm)	Weight (kg)	Box content		Equivalent conduit
								Inner	Outer	
DA50171	17	24.7	15	31	25	10	0.038	100	300	19
DA50241	24	31.9	21	35	25	12	0.052	50	200	25
DA50301	30	38.3	27	39	25	14	0.10	50	100	31
DA50381	38	47.1	33	45	30	16	0.18	50	100	39
DA50501	50	59.1	45	45	25	16	0.26	-	50	51
DA50631	63	74.3	56	64	25	18	0.330	-	20	63
DA50761	76	88.1	70	66	30	20	0.385	-	20	75

For Thick steel conduits

Cat. No.	Size	ØD (mm)	Ød (mm)	L (mm)	l ₁ (mm)	l ₂ (mm)	Weight (kg)	Box content		Equivalent conduit
								Inner	Outer	
DA52171	17	25.5	15	34	18	12	0.058	100	300	16
DA52241	24	32.8	21	36	20	12	0.078	100	200	22
DA52301	30	38.9	28	42	22	16	0.120	50	100	28
DA52381	38	48.1	36	46	25	16	0.180	50	100	36
DA52501	50	60.1	42	48	25	18	0.230	-	50	42
DA52631	63	74.3	56	64	35	18	0.390	-	20	54
DA52761	76	88.1	70	64	35	18	0.470	-	20	70
DA52831	83	93.3	81	65	35	20	0.520	-	10	82
DA52921	101	114.3	93	69	40	20	0.700	-	10	92
DA52041	101	114.3	106	69	40	20	0.680	-	10	104

Connection coupling

Digunakan untuk menyambung antara Conduit ke Hi-Flex White



For Thin steel conduits

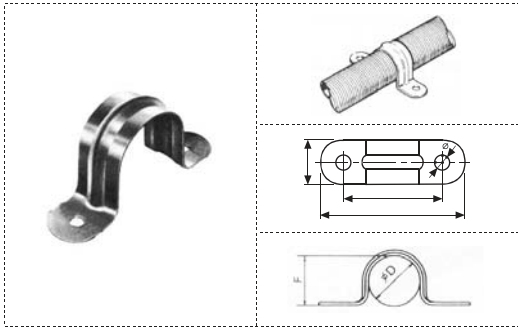
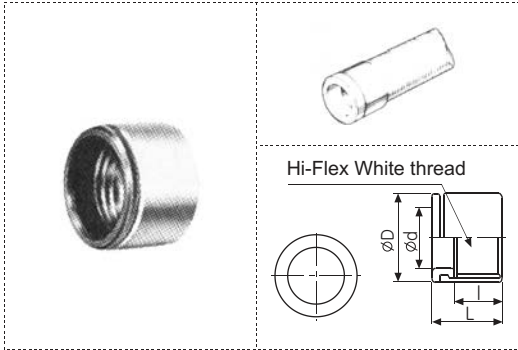
Cat. No.	Size	ØD (mm)	Ød (mm)	L (mm)	l ₁ (mm)	l ₂ (mm)	Weight (kg)	Box content		Equivalent conduit
								Inner	Outer	
DA5117	17	24.5	19.6	45	18	22	0.055	100	300	19
DA5124	24	31.8	25.9	47	20	22	0.080	50	200	25
DA5130	30	37.9	32.3	49	22	22	0.105	50	100	31
DA5138	38	47.1	38.6	57	25	27	0.160	50	100	39
DA5150	50	59.1	51.3	57	25	27	0.230	-	50	51
DA5163	63	73.3	64.2	78	35	35	0.440	-	20	63
DA5176	76	87.1	76.9	78	35	35	0.563	-	20	75

For Thick steel conduits

Cat. No.	Size	ØD (mm)	Ød (mm)	L (mm)	l ₁ (mm)	l ₂ (mm)	Weight (kg)	Box content		Equivalent conduit
								Inner	Outer	
DA5317	17	25.0	19.2	40.0	18	19.0	0.051	100	300	16
DA5324	24	34.0	24.7	40.0	20	22.0	0.084	50	200	22
DA5330	30	40.0	31.0	50.0	22	25.0	0.134	50	100	28
DA5338	38	48.6	39.7	56.0	25	28.0	0.163	-	80	36
DA5350	50	60.3	45.6	56.0	25	28.0	0.308	-	50	42
DA5363	63	76.2	57.6	72.5	35	34.5	0.527	-	20	54
DA5376	76	88.9	73.1	80.5	35	42.5	0.693	-	20	70
DA5383	83	98.0	85.8	85.5	40	42.5	1.100	-	10	82
DA5392	101	114.3	98.3	86.0	40	43.0	2.500	-	10	92
DA5304	101	120.0	111.0	99.0	40	56.0	2.500	-	10	104

Insulated Bushing

Digunakan pada tiap-tiap ujung Hi-Flex White untuk mencegah kerusakan/luka pada kabel saat ditarik melalui Hi-Flex.



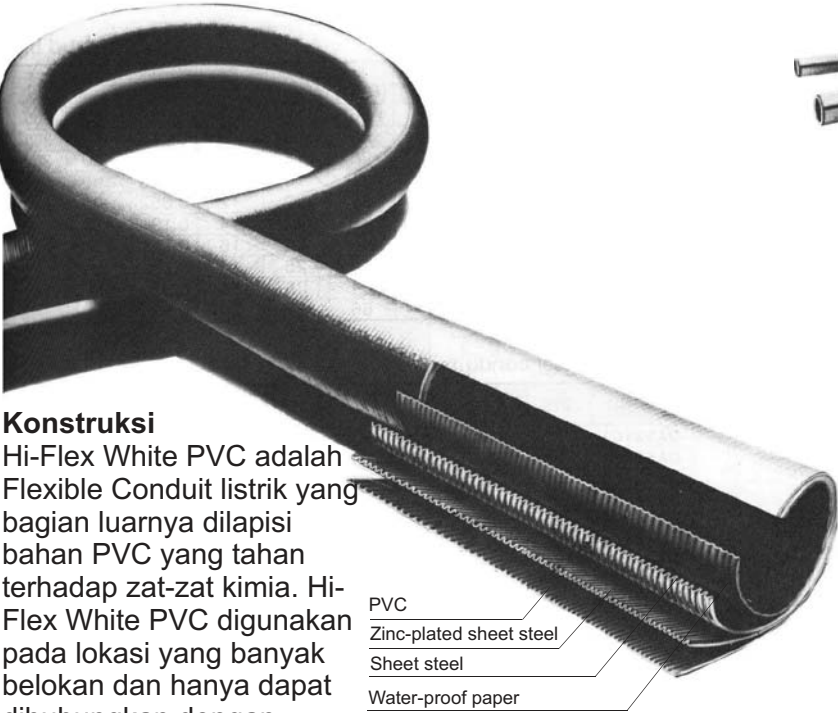
Cat. No.	Size	ØD (mm)	Ød (mm)	L (mm)	I (mm)	Weight (kg)	Box content	
							Inner	Outer
DA3117	17	25.4	16.3	25	16.5	0.023	100	300
DA3124	24	31.8	23.3	26	17.5	0.027	100	200
DA3130	30	38.1	28.8	27	18.5	0.037	50	150
DA3138	38	47.6	37.1	30	19.5	0.066	50	100
DA3150	50	60.5	48.6	31	19.5	0.103	-	100
DA3163	63	76.3	63.0	33	21.5	0.170	-	50
DA3176	76	89.1	77.0	33	21.5	0.184	-	50
DA3183	83	65.1	80.5	36	24.5	0.245	-	50
DA3101	101	114.3	100.0	36	24.5	0.295	-	50

Cat. No.	Size	A (mm)	B (mm)	C (mm)	F (mm)	ØD (mm)	ØE (mm)	Weight (kg)	Box content	
									Inner	Outer
DA3217	17	45	65	20	21.5	19.5	5.0	0.013	100	300
DA3224	24	55	75	20	27.0	25.0	5.0	0.015	100	300
DA3230	30	65	90	25	33.5	31.8	5.5	0.030	50	200
DA3238	38	75	100	25	42.0	40.4	5.5	0.040	50	200
DA3250	50	85	110	25	54.9	53.0	5.5	0.055	50	50
DA3263	63	105	130	25	69.1	67.0	5.5	0.067	-	25
DA3276	76	120	150	30	82.9	80.5	6.5	0.088	-	25
DA3283	83	135	165	35	88.5	86.4	6.5	0.110	-	25
DA3201	101	150	180	35	107.3	105.0	6.5	0.125	-	25

Hi-Flex White PVC

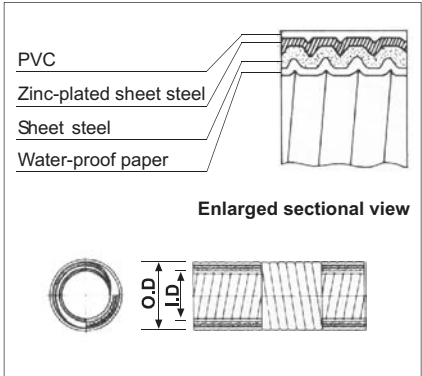
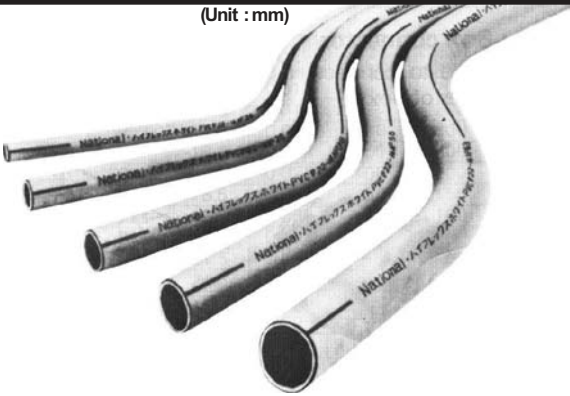
(PVC color C1-10006[Munsell N-6.0])

(Unit : mm)



Konstruksi
Hi-Flex White PVC adalah Flexible Conduit listrik yang bagian luarnya dilapisi bahan PVC yang tahan terhadap zat-zat kimia. Hi-Flex White PVC digunakan pada lokasi yang banyak belokan dan hanya dapat dihubungkan dengan Conduit type Threaded.

PVC
Zinc-plated sheet steel
Sheet steel
Water-proof paper

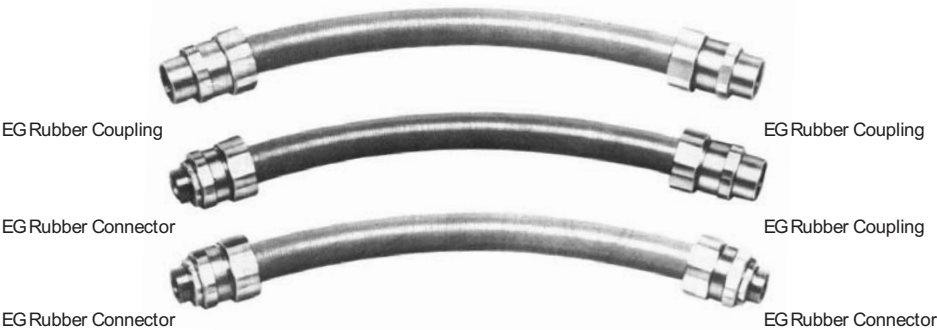


Cat. No.	Size	O.D (mm)	O.D tolerance (mm)	Min. ID (mm)	Coating thickness (mm)	1 Coil lenght (m)	Weight (kg)		Equivalent Conduit Thick steel
							Per coil	Per meter	
DA217SRH	17	23.1	0.2	16.8	0.8	50	30.0	0.60	16
DA224SRH	24	30.4	0.2	23.8	1.0	25	21.0	0.82	22
DA230SRH	30	36.9	0.2	29.3	1.0	25	27.0	1.07	28
DA238SRH	38	44.9	0.4	37.6	1.0	15	21.0	1.36	36
DA250SRH	50	54.9	0.4	49.1	1.2	15	29.0	1.90	42
DA263SRH	63	71.5	0.6	62.6	1.2	10	25.0	2.53	54
DA276SRH	76	85.3	0.6	76.0	1.2	10	30.0	3.00	70
DA283SRH	83	90.5	0.8	81.0	1.2	10	33.5	3.40	82
DA201SRH	101	109.7	0.8	100.4	1.2	10	40.0	4.00	92.104

Small coil product
Hi-Flex White PVC in size 17, 24 and 30 are available in convenient small coil of 10-m lenght.



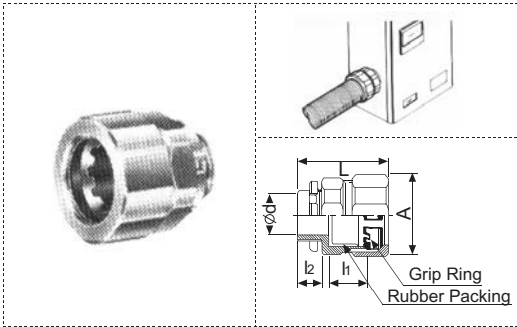
Made to order
These product can be made to the lenghts ordered.



Hi-Flex White PVC fitting

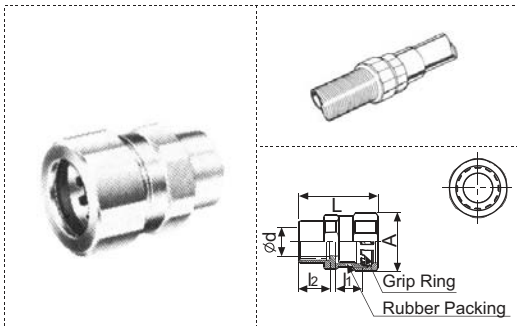
EG Rubber connector

Digunakan untuk menyambung antara Hi-Flex White PVC dengan Box.



EG Rubber coupling

Digunakan untuk menyambung antara Hi-Flex White PVC dan Conduit Threaded Type

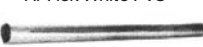


For Thick steel conduits

Cat. No.	Size	A (mm)	L (mm)	l ₁ (mm)	l ₂ (mm)	Ød (mm)	Weight (kg)	Box content	Equivalent conduit
DA417	17	36	44	20	12	15	0.116	30	16
DA424	24	45	49	22.5	12	21	0.175	25	22
DA430	30	50	55	24.5	16	28	0.195	12	28
DA438	38	60	59	28	16	36	0.275	8	36
DA450	50	75	62	28	18	42	0.400	5	42
DA463	63	88	72	38	18	54	0.580	4	54
DA476	76	103	72	38	18	70	0.650	4	70
DA483	83	109	73	38	20	81	0.819	4	82
DA492	92	129	78	43	20	92	1.070	4	92
DA404	104	129	78	43	20	106	1.070	4	104

For Thick steel conduits

Cat. No.	Size	A (mm)	L (mm)	l ₁ (mm)	l ₂ (mm)	Ød (mm)	Weight (kg)	Box content	Equivalent conduit
DA517	17	36	51	20	19	15	0.138	30	16
DA524	24	45	59	22.5	22	21	0.205	25	22
DA530	30	50	64	24.5	25	28	0.225	12	28
DA538	38	60	71	28	28	36	0.308	8	36
DA550	50	75	72	28	28	42	0.610	5	42
DA563	63	88	87	38	33	54	0.910	4	54
DA576	76	103	95	38	41	70	0.980	4	70
DA583	83	109	95	38	41	81	1.110	4	82
DA592	92	129	113	43	54	92	1.575	4	92
DA504	104	129	113	43	54	106	2.087	4	104

		Equivalent conduit; thin steel size	19	25	31	39	51	63	75	15	15
		Equivalent conduit; thick steel size	16	22	28	36	42	54	70	82	92.104
Product type	Hi-Flek White, size		17	24	30	38	50	63	76	83	101
Ordinary type	Hi-Flex White 		DA117	DA124	DA130	DA138	DA150	DA163	DA176	DA183	DA101
	Box Connector 	Thin Steel Use	DA50171	DA50241	DA50301	DA50381	DA50501	DA50631	DA50761	-	-
		Thick Steel Use	DA52171	DA52241	DA52301	DA52381	DA52501	DA52631	DA52761	DA52831	DA52921 DA52041
	Combination coupling 	Thin Steel Use (Without thread)	DA5117	DA5124	DA5130	DA5138	DA5150	DA5163	DA5176	-	-
		Thick Steel Use (Without thread)	DA5317	DA5324	DA5330	DA5338	DA5350	DA5363	DA5376	DA5383	DA5392 DA5304
	Hi-Flek White PVC 		DA217	DA224	DA230	DA238	DA250	DA263	DA276	DA283	DA201
Drip-proof type	EG Rubber Connector 	Thin Steel Use	DA417	DA424	DA430	DA438	DA450	DA463	DA476	DA483	DA492 DA404
	EG Rubber Coupling 	Thick Steel Use	DA517	DA524	DA530	DA538	DA550	DA563	DA576	DA583	DA592 DA504
Common Accessories	Insulated Bushing 		DA3117	DA3124	DA3130	DA3138	DA3150	DA3163	DA3176	DA3183	DA3101
	Saddle 		DA3217	DA3224	DA3230	DA3238	DA3250	DA3263	DA3276	DA3283	DA3201
Tools	Hi-Flek Knife 		DA0020								

MECHA-FLEXI

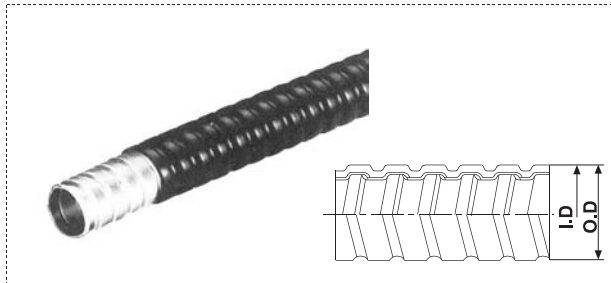
(electrical wiring protective conduit for machine use)

Flexible wiring protective conduits offer one-touch coupling between the conduit body and accessory.

- One-touch coupling between the conduits body and accessory even in narrow locations.
- Accessories can be reused after disconnection.
- Bends easily with excellent durability, even after repeated bending.
- Excellent electromagnetic shielding to maintain the reliability of the control signal.

MECHA-FLEXI TYPE E

This is a low cost flexible conduit that can be bent to a small radius.



Cat. No.	Nominal Size	OD (mm)	OD tolerance (mm)	Min I.D (mm)	Roll length (m)	Weight (kg)	
						Per roll	Per meter
DMA116B	16	21.1	± 0.2	15.8	50	14.0	0.28
DMA122B	22	26.0	± 0.2	20.8	30	10.0	0.33
DMA128B	23	33.1	± 0.3	26.5	30	15.5	0.52
DMA136B	36	41.8	± 0.4	35.2	20	13.0	0.65
DMA142B	42	47.9	± 0.4	40.1	20	15.0	0.75

Straight connectors (type E)

This accessory is used to couple a MECHA-FLEXI conduit to a box or distribution panel.



- Type E straight connectors for thick wall steel conduits

Cat. No.	Nominal Size	A (mm)	Quantity per box		Nominal thread size	Weight (kg)
			Inner	Outer		
DMB116	16	34.5	20	100	CTG16	0.081
DMB122	22	40.2	20	100	CTG22	0.101
DMB128	28	47.4	20	100	CTG28	0.137
DMB136	36	59.2	-	10	CTG36	0.217
DMB142	42	65.3	-	10	CTG42	0.245

Straight couplings (type E)

This accessory is used to connect a MECHA-FLEXI conduit to an electrical wiring conduit.



- Type E straight couplings for thick wall steel conduits

Cat. No.	Nominal Size	A (mm)	Quantity per box		Nominal thread size	Weight (kg)
			Inner	Outer		
DMF116	16	34.5	-	20	CTG16	0.068
DMF122	22	40.2	-	20	CTG22	0.084
DMF128	28	47.4	-	20	CTG28	0.114
DMF136	36	59.2	-	10	CTG36	0.180
DMF142	42	65.3	-	10	CTG42	0.208

***Superior product for
special locations -
Less corrosion
Long Life
Better Appearance !***



1. High Resistance to Corrosion

Stainless Steel (SUS304) construction *ensures against* rust in corrosive areas, such as food processing lines, chemical plants, water treatment plants, seashore plant, etc.

2. Conforming to IMC conduit

Internal diameter and length *conform to IMC requirement*. Can be combined with steel conduit for a more flexible, reliable wiring installation in a variety of applications. Stainless conduit fittings help form a complete, professional wiring system.

3. Long Lifetime

Conduit system must remain in a good condition wherever they are installed. Stainless steel conduit delivers a long lifetime and *require little maintenance* especially in high altitude installations.

4. Brilliant Appearance

Stainless steel conduit polished to a bright finish for a superior appearance. This ensures an *attractive appearance* of special importance to food processing lines.



STAINLESS STEEL CONDUIT PIPE (IMC TYPE)

Stainless Steel Conduit Pipe with one coupling and one end



Size (inch)	Weight (kg/pce)	Product no.	Outside Diameter (mm)	Wall Thickness (mm)	Length (mm)	Bundle (pcs)
1/2	3.08	DWSM 012	21.1	2.1	3.030	10
3/4	3.95	DWSM 034	26.4	2.1	3.030	10
1	6.56	DWSM 100	33.6	2.8	3.025	5
1 1/4	8.39	DWSM 114	42.2	2.8	3.025	3
1 1/2	9.69	DWSM 112	48.3	2.8	3.025	3
2	12.29	DWSM 200	60.3	2.8	3.025	1
3	26.23	DWSM 300	88.9	4.0	3.010	1
4	34.12	DWSM 400	114.2	4.0	3.005	1

STAINLESS STEEL CONDUIT FITTINGS



Coupling

Size (inch)	Weight (kg/pce)	Product no.	Inner Packing (pcs)	Outer Box (pcs)
1/2	0.053	DFSM 11012	25	50
3/4	0.068	DFSM 11034	10	20
1	0.119	DFSM 11100	10	20
1 1/4	0.151	DFSM 11114	10	10
1 1/2	0.190	DFSM 11112	5	5
2	0.281	DFSM 11200	3	6
3	0.728	DFSM 11300	5	5
4	1.019	DFSM 11400	5	5



Normal Bend

Size (inch)	Weight (kg/pce)	Product no.	Inner Packing (pcs)	Outer Box (pcs)
1/2	0.284	DFSM 13012	1	10
3/4	0.434	DFSM 13034	1	8
1	0.872	DFSM 13100	1	6
1 1/4	1.409	DFSM 13114	1	-
1 1/2	1.860	DFSM 13112	1	-
2	2.572	DFSM 13200	1	-
3	7.419	DFSM 13300	1	-
4	13.945	DFSM 13400	1	-



Lock Nut

Size (inch)	Weight (kg/pce)	Product no.	Inner Packing (pcs)	Outer Box (pcs)
1/2	0.004	DFSM 12012	50	-
3/4	0.006	DFSM 12034	50	-
1	0.013	DFSM 12100	50	-
1 1/4	0.018	DFSM 12114	50	-
1 1/2	0.022	DFSM 12112	30	-
2	0.029	DFSM 12200	30	-
3	0.063	DFSM 12300	10	-
4	0.076	DFSM 12400	10	-



Saddle

Size (inch)	Weight (kg/pce)	Product no.	Inner Packing (pcs)	Outer Box (pcs)
1/2	0.011	DFSM 13012	25	-
3/4	0.013	DFSM 13034	25	-
1	0.025	DFSM 13100	25	-
1 1/4	0.028	DFSM 13114	25	-
1 1/2	0.045	DFSM 13112	15	-
2	0.055	DFSM 13200	5	-
3	0.113	DFSM 13300	5	-
4	0.140	DFSM 13400	5	-

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