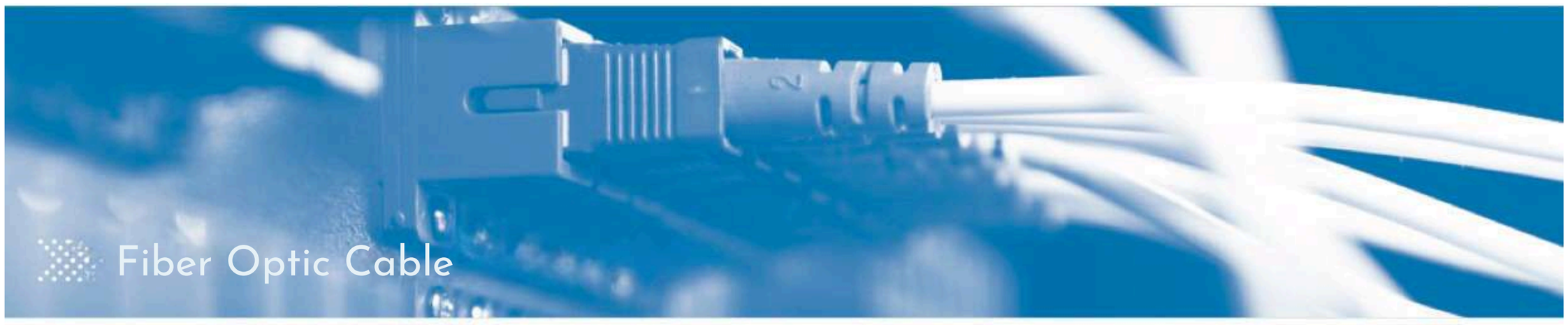
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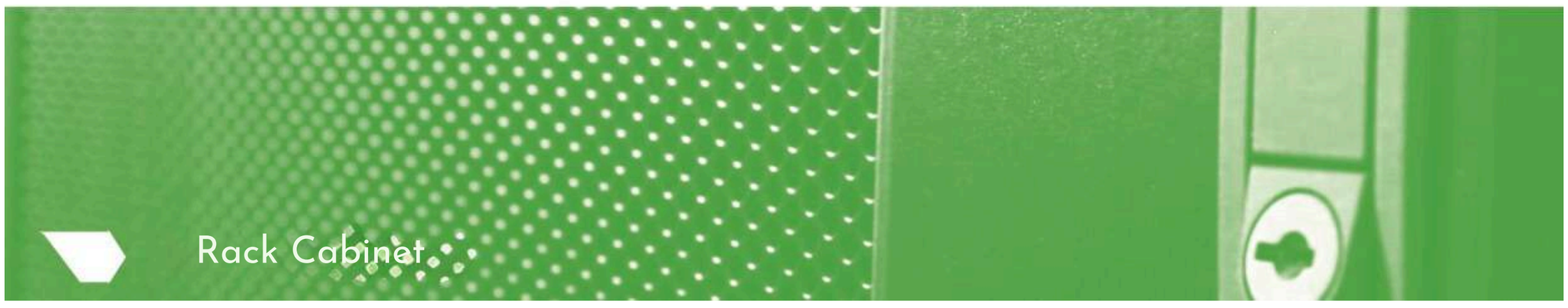
PRODUCT OVERVIEW

2024 - V1









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INTRODUCTION

Upcom® is a global organization providing connectivity and infrastructure solutions for all size of organizations. Upcom® provides complete networking solutions within the industry. Upcom was established in 2018 with its headquarters in Istanbul in Turkey.

Upcom® is a platform where you can find Fiber Optic Connectivity Product, Copper connectivity product, Cable & Rack Cabinet since 2018, based in Turkey. It provides a broad range of products and enrich the variety of products that is available at the stock in each and every day. Upcom's mission is to provide its customers with reliable, modern and cost efective networking solutions.

Upcom is agressive, straightforward oriented global supplier of networking solutions and committed to provide its customers with cost effective and reliable networking solutions that keeps them step forward from their competitors and puts them one step closer to future.

Upcom has presence in most sophisticated global markets, in Europe and Middle East.

Upcom is focused on providing quality proven and certified products by UL, ETL, CPR, CE, REACH & RoHS. Connection technology components are in compliance with international standards and meet the highest standards and are used worldwide.

UPCOM
www.upcom.com.tr
info@upcom.com.tr

FIBER OPTIC CABLES AT A GLANCE



A-DQ(ZN)2Y

Central loose tube, non-metallic armor fiber optic cable



U-DQ(ZN)H

Central loose tube, non-metallic armor LSZH Jacket fiber optic cable



A-DQ(ZN)2Y

Mini, single loose tube, non-metallic armor fiber optic cable



A-DQ(ZN)T2Y

Central loose tube, non-metallic armor, aerial fiber optic cable



A-DQ(ZN)T2Y

Central loose tube, non-metallic armor, stranded copper, figure eight composite cable



A-DQ(ZN)(SR)2Y

Central loose tube, corrugated steel tape armor fiber optic cable



U-DQ(ZN)(SR)H

Central loose tube, corrugated steel tape armor LSZJ Jacket Fire Resistant fiber optic cable



A-DQ(ZN)(SR)T2Y

Central loose tube, corrugated steel tape armor, Fig8 aerial fiber optic cable



A-DQ(ZN)(SR)2Y

Central loose tube, corrugated steel tape armor, two embedded steel wire in the outer jacket fiber optic cable



A-DQ(ZN)2Y(SR)2Y

Central loose tube, corrugated steel tape armor double jacket fiber optic cable



U-DQ(ZN)H(SR)H

Central loose tube, corrugated steel tape armor, double jacket fire resistant fiber optic cable



A-DF(ZN)2Y

Multi loose tube, non-metallic armor fiber optic cable



A-DQ(ZN)2Y

Multi loose tube, non-metallic armor fiber optic cable



A-DF(ZN)2Y

Multi loose tube, non-metallic armor gel-filled fiber optic cable



U-DF(ZN)H

Multi loose tube, non-metallic armor LSZH Jacket Gel-filled fiber optic cable



U-DQ(ZN)H

Multi loose tube, non-metallic armor LSZH Jacket Dry fiber optic cable

FIBER OPTIC CABLES AT A GLANCE



A-DF(ZN)T2Y

Multi loose tube, non-metallic armor, aerial fiber optic cable



A-DF(ZN)2Y L-ADSS

Multi loose tube, non-metallic armor, light all-dielectric self-supporting fiber optic cable



A-DF2Y(ZN)2Y

Multi loose tube, non-metallic armor, all-dielectric self-supporting fiber optic cable



A-DQ(ZN)2Y

Multi loose tube, non-metallic armor, stranded copper composite fiber optic cable



A-DF2Y(ZN)2Y

Multi loose tube, non-metallic armor double jacket gel-filled fiber optic cable



A-DQ2Y(ZN)2Y

Multi loose tube, non-metallic armor double jacket dry fiber optic cable



A-DF2Y(ZN)2Y

Multi loose tube, non-metallic armor double jacket gel filled fiber optic cable



A-DQ2Y(ZN)2Y

Multi loose tube, non-metallic armor double jacket dry with aramid yarn fiber optic cable



A-DF(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor single jacket fiber optic cable



A-DQ(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor dry fiber optic cable



A-DF(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor gel-filled fiber optic cable



A-DQ(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor fiber optic cable



A-DF(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor single jacket fiber optic cable



U-DF(ZN)(SR)H

Multi loose tube, corrugated steel tape armor single lszf jacket fiber optic cable



U-DQ(ZN)(SR)H

Multi loose tube, corrugated steel tape armor single LSZH jacket Dry fiber optic cable



A-DF(ZN)(SR)T2Y

Multi loose tube, corrugated steel tape armored, aerial type with stranded messenger wire fiber optic cable

FIBER OPTIC CABLES AT A GLANCE



A-DQ(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor, stranded copper composite cable



A-DF(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor double jacket jelly fiber optic cable



A-DQ(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor doouble jacket dry fiber optic cable



A-DF(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor fiber optic cable



A-DQ(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor double jacket dry fiber optic cable



A-DF(ZN)2Y(SR)T2Y

Multi loose tube, corrugated steel tape armor, double jacket aerial fiber optic cable



A-DF(ZN)2Y2B2Y

Multi loose tube, double galvanized steel tape armor double jacket jelly fiber optic cable



A-DF(ZN)2Y2BT2Y

Multi loose tube, double galvanized steel tape armor, aerial fiber optic cable



U-DQ(ZN)MT-H-MT(SR)H

Multi loose tube, corrugated steel tape armor, double jacket fire resistant fiber optic cable



A-DQ(ZN)2Y

Micro, single loose tube, non-metallic armor PE fiber optic cable



U-DQ(ZN)H

Microduct, single loose tube, non-metallic armor LSZH Jacket fiber optic cable



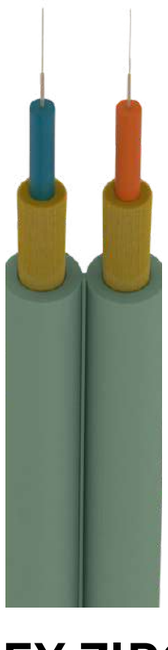
A-DQ-2Y

Microduct, multi loose tube fiber optic cable



SIMPLEX ZIPCORD

Tight Buffer Pigtail Single LSZH Jacket Indoor Type Fiber Optic Cable



DUPLEX ZIPCORD

Tight Buffer Pigtail Single LSZH Jacket Indoor Type Fiber Optic Cable



J-V(ZN)H

Indoor Distribution Cable



A-V(ZN)H(SR)2Y

Outdoor Distribution Cable

FIBER OPTIC CABLES AT A GLANCE



A-DQ(ZN)(SR)2Y

Multi loose tube, corrugated steel tape armor, stranded copper composite cable



A-DF(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor double jacket jelly fiber optic cable



A-DQ(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor doouble jacket dry fiber optic cable



A-DF(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor fiber optic cable



A-DQ(ZN)2Y(SR)2Y

Multi loose tube, corrugated steel tape armor double jacket dry fiber optic cable



A-DF(ZN)2Y(SR)T2Y

Multi loose tube, corrugated steel tape armor, double jacket aerial fiber optic cable



A-DF(ZN)2Y2B2Y

Multi loose tube, double galvanized steel tape armor double jacket jelly fiber optic cable



A-DF(ZN)2Y2BT2Y

Multi loose tube, double galvanized steel tape armor, aerial fiber optic cable



U-DQ(ZN)MT-H-MT(SR)H

Multi loose tube, corrugated steel tape armor, double jacket fire resistant fiber optic cable



A-DQ(ZN)2Y

Micro, single loose tube, non-metallic armor PE fiber optic cable



U-DQ(ZN)H

Microduct, single loose tube, non-metallic armor LSZH Jacket fiber optic cable



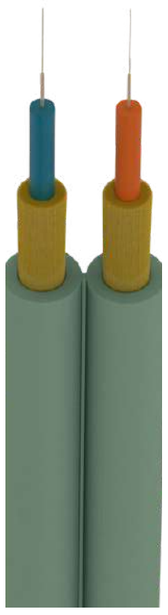
A-DQ-2Y

Microduct, multi loose tube fiber optic cable



SIMPLEX ZIPCORD

Tight Buffer Pigtail Single LSZH Jacket Indoor Type Fiber Optic Cable



DUPLEX ZIPCORD

Tight Buffer Pigtail Single LSZH Jacket Indoor Type Fiber Optic Cable



J-V(ZN)H

Indoor Distribution Cable



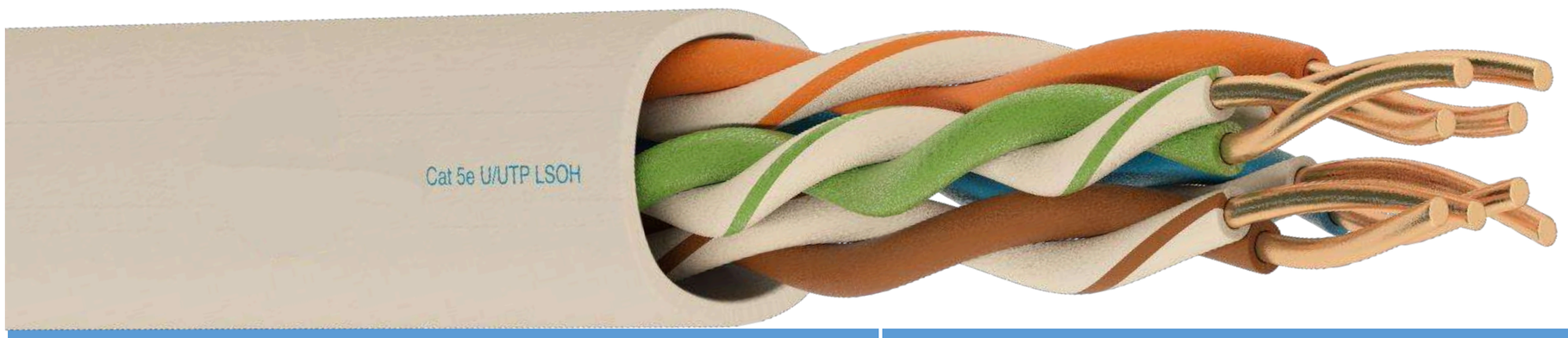
A-V(ZN)H(SR)2Y

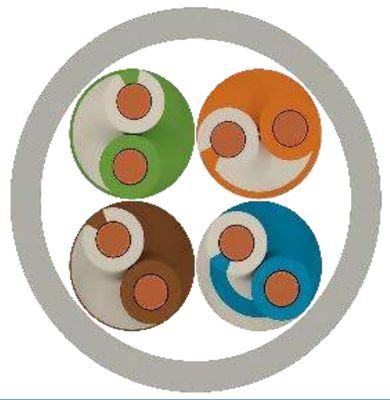
Outdoor Distribution Cable

Data/LAN Cables

Cat 5e U/UTP LSOH

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Application

- 10 BASE-T (IEEE 802.3) Ethernet
- 100 BASE-T (IEEE 802.3u) Fast Ethernet
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 52/155 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet) (IEEE 802.3 ab)
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

1 - Conductor	:	Electrolytic solid copper conductor
2 - Insulation	:	Solid polyethylene insulation
3 - Stranding	:	Insulations are stranded into pairs and all pairs are stranded together
4 - Outer Jacket	:	UV resistant, halogen-free outer jacket

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-100 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
94 max.	5000	56	%2	%67-69	100 ±%15	250	1200

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

Standards

Manufacturing	Smoke Density Test	Flame Propagation Test	Corrosive Gas Test	Halogen-free Test
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801	IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60332-3-24, VDE 0482-332-3-31, BS EN 60332-3-24	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, BS EN 50267-2-1

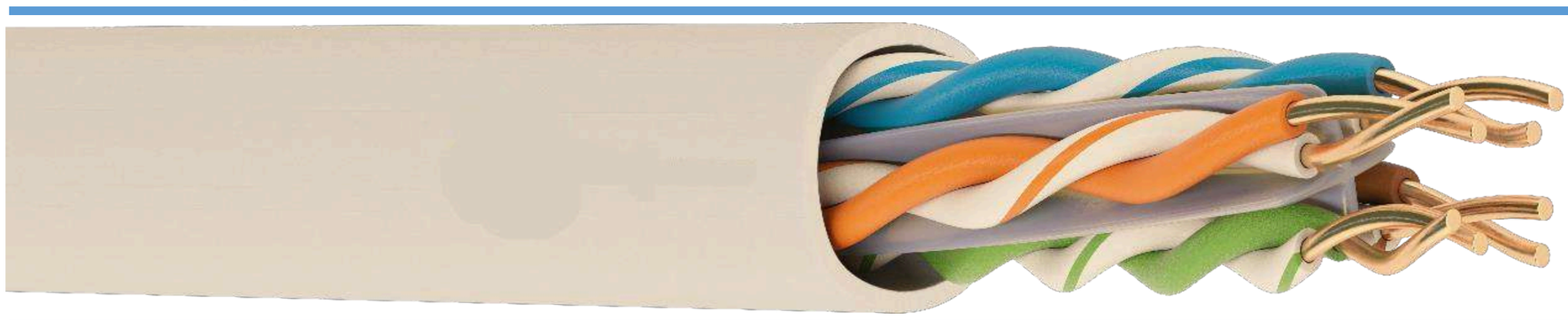
Electrical Properties

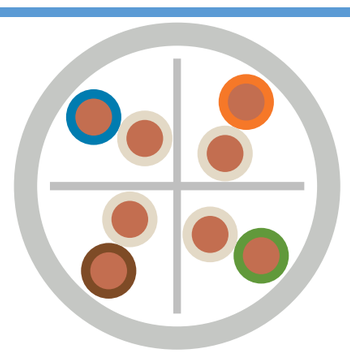
Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
0.772	1.8	67	64	66	66	-
1	2	65.3	62.3	63.8	63.8	23
4	4.1	56.3	53.3	51.8	51.8	23
8	5.8	51.8	48.8	45.7	45.7	23
10	6.5	50.3	47.3	43.8	43.8	23
16	8.2	47.2	44.2	39.7	39.7	23
20	9.3	45.8	42.8	37.8	37.8	23
25	10.4	44.3	41.3	35.8	35.8	22
31.25	11.7	42.9	39.9	33.9	33.9	21
62.5	17	38.4	35.4	27.9	27.9	18
100	22	35.3	32.3	23.8	23.8	16

Data/LAN Cables

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Application

- ISDN
- 4/6 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM Power over Ethernet (PoE)
- 10 BASE-T Ethernet (IEEE 802.3j)
- 100 BASE-VG AnyLAN (IEEE 802.12)
- 1000 BASE-T 1 Gigabit Ethernet (IEEE 802.3 ab)
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

1 - Conductor	:	Electrolytic solid copper conductor
2 - Insulation	:	Solid polyethylene insulation
3 - Stranding	:	Insulations are stranded into pairs
4 - Separator	:	Pairs are stranded together with star shaped separator UV resistant, halogen-free outer jacket.
5 - Outer Jacket	:	

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-250 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
Max. 94	5000	Max. 56	%2	%67-69	100 ±%15	250	1200

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

Standards

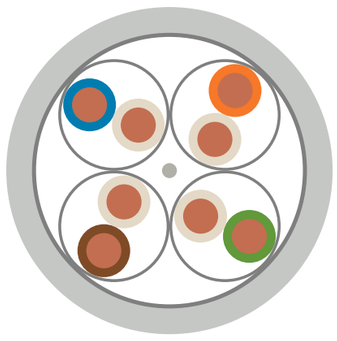
Manufacturing	Smoke Density Test	Flame Propagation Test	Corrosive Gas Test	Halogen-free Test
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801	IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60332-3-24, VDE 0482-332-3-31, BS EN 60332-3-24	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, BS EN 50267-2-1

Electrical Properties

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
1	2	74.3	72.3	67.8	64.8	20
4	3.8	65.3	63.3	55.8	52.8	23
8	5.3	60.8	58.8	49.7	46.7	24.5
10	6	59.3	57.3	47.8	44.8	25
16	7.6	56.2	54.2	43.7	40.7	25
20	8.5	54.8	52.8	41.8	38.8	24.3
25	9.5	53.3	51.3	39.8	36.8	23.6
31.25	10.7	51.9	49.9	37.9	34.9	21.5
62.5	15.4	47.4	45.4	31.9	28.9	20.1
100	19.8	44.3	42.3	27.8	24.8	18
200	29	39.8	37.8	21.8	18.8	17.3
250	32.8	38.3	36.3	19.8	16.8	16.8

Data/LAN Cables
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Application

- ISDN
- 4/6 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM Power over Ethernet (PoE)
- 10 BASE-T Ethernet (IEEE 802.3j)
- 100 BASE-VG AnyLAN (IEEE 802.12)
- 1000 BASE-T 1 Gigabit Ethernet (IEEE 802.3 ab)
- 10 GBASE-T 10 Gigabit Ethernet (IEEE 802.3 an)

Cable Construction

1 - Conductor :Electrolytic solid copper conductor
2 - Insulation :Foamed polyethylene cladded with solid polyethylene
3 - Indv. Stranding :Insulations are stranded into pairs
4 - Indv. Screen :Al/PET tape
5 - Screen Wire :A tinned copper earthing wire between screened pairs
6 - Ovrl. Stranding :In layers
7 - Ovrl. Screen :Al/PET tape
8 - Outer Jacket : UV resistant, halogen-free outer jacket, RAL 7035 (Grey)

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-500 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
Max. 94	5000	Max. 56	%2	%78-80	100 ±%5	125	1200

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

Standards

Manufacturing
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801

Electrical Properties

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
1	2.1	74.3	72.3	67.8	64.8	20
4	3.8	65.3	63.3	55.8	52.8	23
8	5.3	60.8	58.8	49.7	46.7	24.5
10	5.9	59.3	57.3	47.8	44.8	25
16	7.5	56.2	54.2	43.7	40.7	25
20	8.4	54.8	52.8	41.8	38.8	25
25	9.4	53.3	51.3	39.8	36.8	24.3
31.25	10.5	51.9	49.9	37.9	34.9	23.6
62.5	15	47.4	45.4	31.9	28.9	21.5
100	19.1	44.3	42.3	27.8	24.8	20.1
200	27.6	39.8	37.8	21.8	18.8	18
250	31.1	38.3	36.3	19.8	16.8	17.3
300	34.3	37.1	35.1	18.3	15.3	16.8
400	40.1	35.3	33.3	15.8	12.8	15.9
500	45.3	33.8	31.8	13.8	10.8	15.2

Data/LAN Cables

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Application

- ISDN
- 4/6 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM Power over Ethernet (PoE)
- 10 BASE-T Ethernet (IEEE 802.3j)
- 100 BASE-VG AnyLAN (IEEE 802.12)
- 1000 BASE-T 1 Gigabit Ethernet (IEEE 802.3 ab)
- 10 GBASE-T 10 Gigabit Ethernet (IEEE 802.3 an)
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

1 - Conductor	:	Electrolytic solid copper conductor
2 - Insulation	:	Foamed polyethylene cladded with solid polyethylene
3 - Indv. Stranding	:	Insulations are stranded into pairs
4 - Indv. Screen	:	Al/PET tape
5 - Screen Wire	:	A tinned copper earthing wire between screened pairs In layers
6 - Ovrl. Stranding	:	Tinned copper braiding
7 - Ovrl. Screen	:	UV resistant, halogen-free outer jacket.
8 - Outer Jacket		

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-600 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
Max. 94	5000	Max. 56	%2	%78-80	100 ±%5	125	1200

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

Standards

Manufacturing	Smoke Density Test	Flame Propagation Test	Corrosive Gas Test	Halogen-free Test
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801	IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60332-3-24, VDE 0482-332-3-31, BS EN 60332-3-24	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, BS EN 50267-2-1

Electrical Properties

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
1	NS	78.0	75.0	78.0	75.0	20.0
4	3.74	78.0	75.0	78.0	75.0	23.0
10	5.86	78.0	75.0	74.0	71.0	25.0
20	8.29	78.0	75.0	68.0	65.0	25.0
25	9.29	78.0	75.0	66.0	63.0	24.3
31.25	10.41	78.0	75.0	64.1	61.1	23.6
62.5	14.88	75.5	72.5	58.0	55.1	21.5
100	18.02	72.4	69.4	54.0	51.0	20.1
200	23.56	69.8	66.8	50.0	47.5	18.9
250	27.47	67.9	64.9	48.0	45.0	18.0
300	30.97	66.4	63.4	46.0	43.0	17.3
400	34.19	65.2	62.2	44.5	41.5	17.3
450	40.01	63.4	60.4	42.0	39.0	17.3
500	45.26	61.9	58.9	40.0	37.0	17.3
600	50.10	60.7	57.7	38.4	35.4	17.3

Data/LAN Cables

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Application

- ISDN
- 4/6 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM Power over Ethernet (PoE)
- 10 BASE-T Ethernet (IEEE 802.3j)
- 100 BASE-VG AnyLAN (IEEE 802.12)
- 1000 BASE-T 1 Gigabit Ethernet (IEEE 802.3 ab)
- 10 GBASE-T 10 Gigabit Ethernet (IEEE 802.3 an)
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

1 - Conductor	:	Electrolytic solid copper conductor
2 - Insulation	:	Foamed polyethylene cladded with solid polyethylene
3 - Indv. Stranding	:	Insulations are stranded into pairs
4 - Indv. Screen	:	Al/PET tape
5 - Screen Wire	:	A tinned copper earthing wire between screened pairs In layers
6 - Ovrl. Stranding	:	Tinned copper braiding
7 - Ovrl. Screen	:	UV resistant, halogen-free outer jacket.
8 - Outer Jacket		

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-1200 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
Max. 94	5000	Max. 56	%2	%78-80	100 ±%5	125	1200

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

Standards

Manufacturing	Smoke Density Test	Flame Propagation Test	Corrosive Gas Test	Halogen-free Test
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801	IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60332-3-24, VDE 0482-332-3-31, BS EN 60332-3-24	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, BS EN 50267-2-1

Electrical Properties

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
1	NS	78.0	75.0	78.0	75.0	20.0
4	3.74	78.0	75.0	78.0	75.0	23.0
10	5.86	78.0	75.0	74.0	71.0	25.0
20	8.29	78.0	75.0	68.0	65.0	25.0
31.25	10.41	78.0	75.0	64.1	61.1	23.6
62.5	14.88	75.5	72.5	58.0	55.1	21.5
100	18.02	72.4	69.4	54.0	51.0	20.1
200	23.56	69.8	66.8	50.0	47.5	18.9
300	30.97	66.4	63.4	46.0	43.0	17.3
400	34.19	65.2	62.2	44.5	41.5	17.3
500	45.26	61.9	58.9	40.0	37.0	17.3
600	50.10	60.7	57.7	38.4	35.4	17.3
800	58.92	58.9	55.9	35.9	32.9	16.1
1000	66.93	57.4	54.4	34.0	31.0	15.1
1200	74.36	56.2	53.2	32.4	29.4	14.3

ALPINELINE

Technical data pages by UPCOM

Alpineline 19’’ 560 mm Wall Mounted Cabinet



General Features

- Alpineline cabinets have three side openable, lockable and easily removable covers.
- The side covers are made by DKP sheet and the front side is made by 4 mm thick, impact-resistant, tempered and smoked-colored glass which is supported by metal frames.
- The rear cover is made by high strength DKP sheet that provides high strength with holes for wall mounting.
- The frame and corner profiles have screwed structure at the interior surface
- Ventilation can be provided by cooling units with 1 or 2 fans.
- 7U , 9U , 12U , 16U and 20U height options.
- There are four 19” mounting profiles which can be adjusted in depth according to the need in the cabinet
- Mounting profiles have U markings that facilitate the mounting process.
- At the bottom part of the cabinets, there is a sliding and dust-protected brushed cable entry. These entries are available in three locations, from bottom to top.
- Painted by impact-resistant,high strength, electrostatic Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:553 mm D:560 mm
Available U - Sizes	:7U / 9U / 12U / 16U / 20U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:120kg / 2 64.55Ibs
IP rating	: IP20
Available Colors	:Ral 7035 Light Gray / Ral 9005 Black (Contact your sales representative for different colors)

SOHO

Technical data pages by UPCOM

Soho 19’’ 400 mm Wall Mounted Cabinet





General Features

- Soho cabinets have front side openable door.
- The front side is made by 4 mm thick, impact-resistant, tempered and smo- ked-colored glass.
- Ventilation can be provided by cooling units with 1 or 2 fans.
- 4U , 7U , 9U and 12U height options.
- There are four 19” mounting profiles which can be adjusted in depth accor- ding to the need in the cabinet
- At the bottom, top and rear parts of the cabinets have cable entry.
- Painted by impact-resistant,high strength, electrostatic Ral 7035 gray or Ral 9005 texture black color.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:510 mm D:400 mm
Available U - Sizes	:4U / 7U / 9U / 12U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:50kg / 110.23 Ibs
IP rating	: IP20
Available Colors	:Ral 7035 Light Gray / Ral 9005 Black (Contact your sales representative for different colors)

BASICLINE

Technical data pages by UPCOM

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Basicline 19’’ Free Standing Rack
Cabinet Reference Rack:600x1000



General Features

- Betaline cabinets have four side openable, lockable and easily removable covers.
- The rear and side covers are made by DKP sheet and the front side is made by 4 mm thick, impact-resistant, tempered and smoked-colored glass which is supported by metal frames.
- The frame and corner profiles have screwed structure at the interior surface
- Ventilation can be provided by cooling units with 2 , 4 or 6 fans.
- 12U , 16U , 20U , 26U , 32U , 36U , 42U and 47U height options.
- There are four 19” mounting profiles which can be adjusted in depth according to the need in the cabinet
- Mounting profiles have U markings that facilitate the mounting process.
- At the bottom part of the cabinets, there is a sliding and dust-protected brushed cable entry. These entries are available in two locations, from bottom to top.
- Painted by impact-resistant,high strength, electrostatic Ral 9005 texture black color or Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:600 mm D:1000 mm
Available U - Sizes	:12U / 16U / 20U / 26U / 32U / 36U / 42U / 47U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:1200kg / 2 645.55Ibs
IP rating	: IP20
Available Colors	:Ral 9005 Black / Ral 7035 Light Gray (Contact your sales representative for different colors)

MEDIATELINE

Technical data pages by UPCOM

Mediateline 19’’ Free Standing Rack Cabinet Reference Rack:600x600



General Features

- Mediateline cabinets have four side openable, lockable and easily removable
covers.
- The rear and side covers are made by DKP sheet and the front side is made by 4 mm thick, impact-resistant, tempered and smoked-colored glass which is supported by metal frames.
- The frame and corner profiles have nested structure and this structure provides high strength.
- Ventilation can be provided by cooling units with 2 or 4 fans.
- 12U , 16U , 20U and 26U height options.
- There are four 19” mounting profiles which can be adjusted in depth according to the need in the cabinet
- Mounting profiles have U markings that facilitate the mounting process.
- At the bottom part of the cabinets, there is a sliding and dust-protected brushed cable entry. These entries are available in two locations, from bottom to top.
- Painted by impact-resistant,high strength, electrostatic Ral 9005 texture black color or Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:600 mm D:600 mm
Available U - Sizes	:12U / 16U / 20U / 26U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:600kg / 1 322.77Ibs
IP rating	: IP20
Available Colors	:Ral 9005 Black / Ral 7035 Light Gray (Contact your sales representative for different colors)

OXOLINE

Technical data pages by UPCOM

Oxoline 19’’ Free Standing Rack
Cabinet Reference Rack:800x1000



General Features

- Oxoline cabinets have four side openable, lockable and easily removab- le covers.
- The rear and side covers are made by DKP sheet and the front side is made by 4 mm thick, impact-resistant, tempered and smoked-colored glass which is supported by metal frames.
- The frame and corner profiles have nested structure and this structure provides high strength.
- Ventilation can be provided by cooling units with 2 , 4 or 6 fans.
- 26U , 32U , 36U , 42U and 47U height options.
- There are four 19” mounting profiles which can be adjusted in depth accor- ding to the need in the cabinet
- Mounting profiles have U markings that facilitate the mounting process.
- At the bottom part of the cabinets, there is a sliding and dust-protected brushed cable entry. These entries are available in two locations, from bottom to top.
- Painted by impact-resistant,high strength, electrostatic Ral 9005 texture black color or Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:780 mm D:1000 mm
Available U - Sizes	:16U / 20U / 26U / 32U / 36U / 42U / 47U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:1200kg / 2 645.55Ibs
IP rating	: IP20
Available Colors	:Ral 9005 Black / Ral 7035 Light Gray (Contact your sales representative for different colors)

SERVER RACK

Technical data pages by UPCOM

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Server Rack 19’’ Free Standing Rack
Cabinet Reference Rack:800x1200



General Features

- Server cabinets have four side openable, lockable and easily removable covers.
- All covers are made by DKP sheet and the front and rear covers have a vertically double open perforated structure.
- The frame and corner profiles have nested structure and this structure provides high strength.
- Ventilation can be provided by cooling units with 4 or 6 fans.
- 32U , 36U and 42U height options.
- There are four 19” mounting profiles which can be adjusted in depth accor- ding to the need in the cabinet
- Mounting profiles have U markings that facilitate the mounting process.
- At the bottom part of the cabinets, there is a sliding and dust-protected brushed cable entry. These entries are available in two locations, from bottom to top.
- Painted by impact-resistant,high strength, electrostatic Ral 9005 texture black color or Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:780 mm D:1200 mm
Available U - Sizes	:32U / 36U / 42U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Static Load Capacity	:1500kg / 3 306.93Ibs
IP rating	: IP20
Available Colors	:Ral 9005 Black / Ral 7035 Light Gray (Contact your sales representative for different colors)

SERVER RACK

SLIMRACK

Technical data pages by UPCOM

Slimrack 19’’ Wall Mounted Cabinet

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General Features

- Used in offices and where small systems are involved.
- It creates a stylish look thanks to its aesthetic design.
- The rear panel is made by high strength DKP sheet that provides high strength with holes for wall mounting.
- It provides 5U usage area, 3U front and 2U rear.
- Can be mounted to the wall or roof in accordance to usage.
- Mounting profiles have U markings that facilitate the mounting process.
- At the bottom rear parts of the cabinets have cable entry.
- Painted by impact-resistant,high strength, electrostatic Ral 7035 gray or Ral 9005 texture black color.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:500 mm D:480 mm
Available U - Sizes	:5U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:20kg / 44.09Ibs
IP rating	: IP20
Available Colors	:Ral 7035 Light Gray / Ral 9005 Black (Contact your sales representative for different colors)

SLIMRACK

IP66 OUTDOOR

Technical data pages by UPCOM

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Outdoor 19’’ Wall Mounted Rack
Cabinet Reference Rack:600x600



General Features

- Openable and lockable front cover.
- Full protection against dust and water ingress with IP66 structure.
- Openable top structure that provides external access to the fan module.
- Cable entry slots are located at the bottom part.
- Air inlet louvers with dust filter.
- Air vent part with dust filtered fan.
- Ventilation can be provided by cooling units with 1 or 2 fans.
- 7U , 9U , 12U , 16U and 20U height options.
- Mounting profiles have U markings that facilitate the mounting process.
- It can be mounted to the Wall.
- Higly effective zirconium + zinc coating against corrosion.
- Painted by impact-resistant,high strength, electrostatic Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:600 mm D:600 mm
Available U - Sizes	:7U / 9U / 12U / 16U / 20U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:300kg / 661.38Ibs
IP rating	: IP66
Available Colors	:Ral 7035 Light Gray

IP66 OUTDOOR

UPCOM
UPCOM TELEKOMUNIKASYON BILISIM TEKNOLOJILERI SAN. VE TIC. LTD. STI.
Kucuksu Mh. Rasathane Cd. No:35R:2-D:2 Uskudar ISTANBUL +90 535 765 18 57 : www.upcom.com.tr - info@upcom.com.tr

IP66 OUTDOOR

Technical data pages by UPCOM

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Outdoor 19’’ Mast Type Cabinet
Cabinet Reference Rack:600x450



General Features

- Openable and lockable front cover.
- Full protection against dust and water ingress with IP66 structure.
- Openable top structure that provides external access to the fan module.
- Opportunity of hidden cable entry with pipe structure at the rear part.
- Air inlet louvers with dust filter.
- Air vent part with dust filtered fan.
- Ventilation can be provided by cooling units with 1 or 2 fans.
- 9U internal usage capacity. Availability to produce in different dimensions.
- DKP steel sheet for outside layer.
- Mounting profiles have U markings that facilitate the mounting process.
- 4 pieces of camera connection points.
- It can be mounted to the mast.
- Higly effective zirconium + zinc coating against corrosion.
- Painted by impact-resistant,high strength, electrostatic Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:600 mm D:450 mm
Available U - Sizes	:9U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:300kg / 661.38Ibs
IP rating	: IP66
Available Colors	:Ral 7035 Light Gray

IP66 OUTDOOR

IP66 OUTDOOR

Technical data pages by UPCOM

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Outdoor 19’’ Field Type Cabinet
Cabinet Reference Rack:600x600



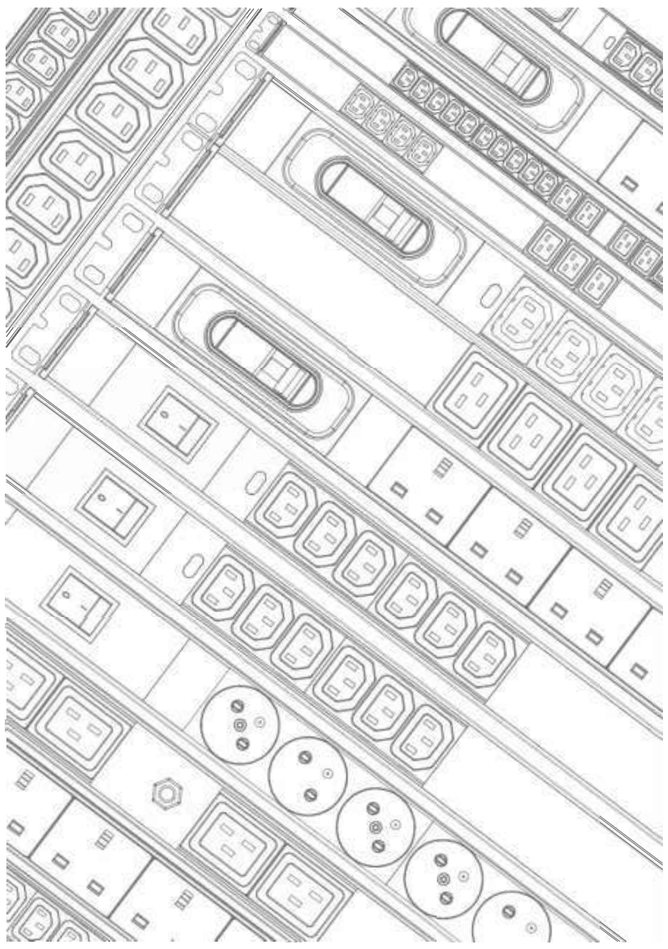
General Features

- Openable and lockable front cover.
- Full protection against dust and water ingress with IP66 structure.
- Openable top structure that provides external access to the fan module.
- Standart 100 mm plinth.
- Cable entry slots are located at the bottom part.
- Air inlet louvers with dust filter.
- Air vent part with dust filtered fan.
- Ventilation can be provided by cooling units with 1 or 2 fans.
- 7U , 9U , 12U , 16U and 20U height options.
- Mounting profiles have U markings that facilitate the mounting process.
- It can be mounted to the ground.
- Higly effective zirconium + zinc coating against corrosion.
- Painted by impact-resistant,high strength, electrostatic Ral 7035 gray.
- All test procedures have been carried out and has RoHS, CE, EN 61587-1 standards.

Technical Descriptions

Dimensions W*D	:W:600 mm D:600 mm
Available U - Sizes	:7U / 9U / 12U / 16U / 20U
Paint Type	:Electrostatic powder paint
Standarts	:In accordance with the standard TS EN IEC 61587-1: 2022 / ISO9001-2015 / ISO14001-2015 / ISO 45001-2018 / ISO 27001:2017 / RoHS / UL 2416
Material	:Sheet Steel, DIN EN 1030-99 / DC-01 6112 / DC-7122
Load Carrying Capacity	:600kg / 1 322.77Ibs
IP rating	: IP66
Available Colors	:Ral 7035 Light Gray

IP66 OUTDOOR



UPCOM Power Distribution Unit

We know the importance of the data, devices and the uninterrupted performance in your data centers.

UPCOM Power Distribution Units provide the energy and security in all systems and devices, especially in data centers.

With our products designed based on efficiency, longevity and durability, our standard or personalized model options can offer the best fit solutions to users.

Custom Made Design

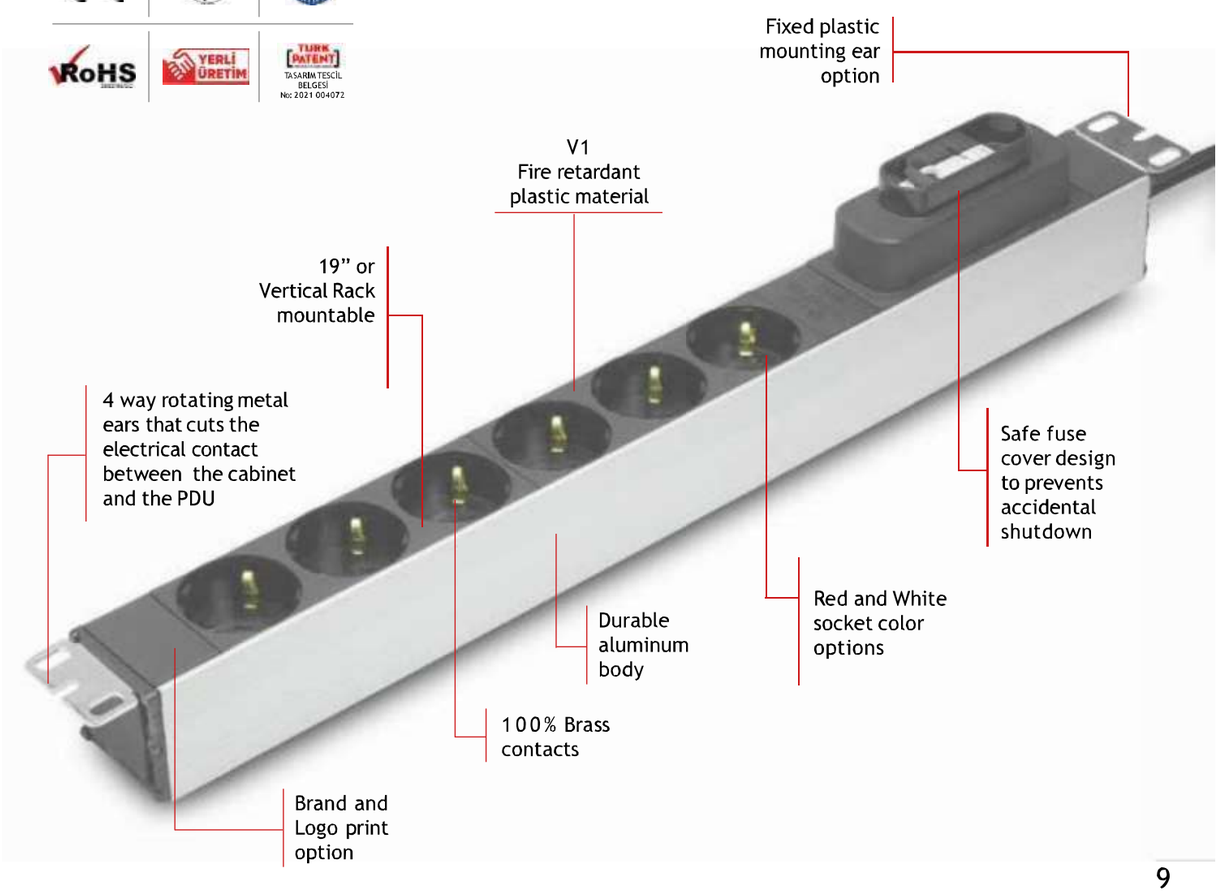
Apart from the product options presented , we also offer custom made PDU's with our flexible, fast, qualified design and production process.

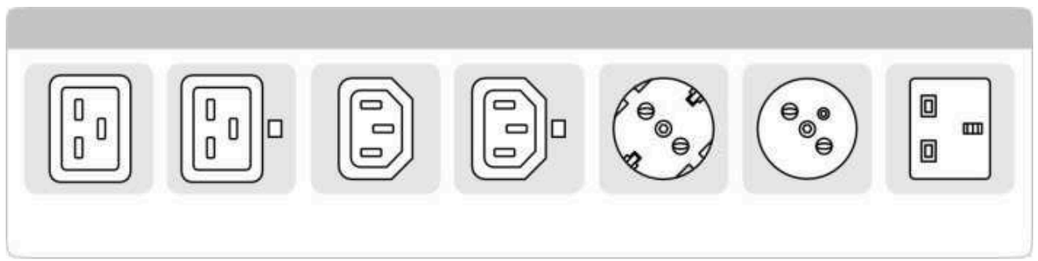
Starting from a single socket, we offer PDUswith all features and combinations -with OEM option.

Technical Features

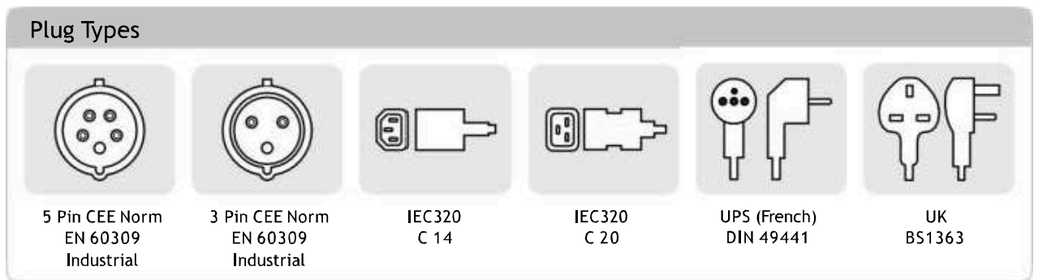
Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

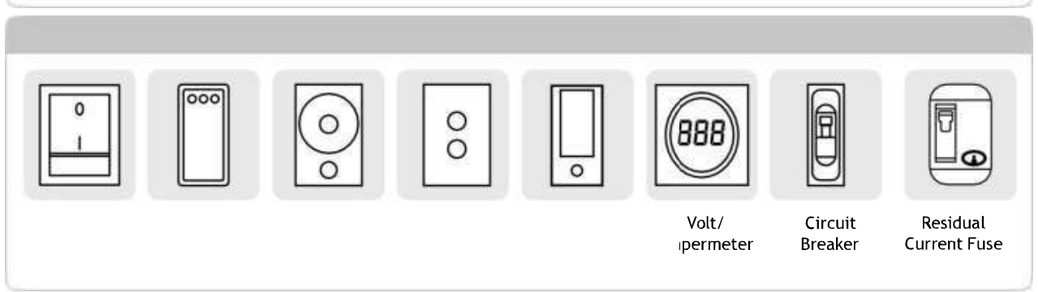
Certificates





Plug Types





Socket Number

1+X Socket number on demand

Socket Color

Black
Red
White

Cable Length

1 m. | 1,5 m. | 1,8 m. | 2 m. | 2,5 m. | 3 m. | 5 m.

Cable Diameter

3 x 1,5 mm² | 3 x 2,5 mm² | 3 x 4 mm² | 3 x 6 mm² | 5 x 4 mm² | 5 x 6 mm²

Product Coding System

WW-79XY-ZZQQFFNN-JJ-DD-KM-PP-PK

WW Brand Name
DR UPCOM

79 Product Category
(Rack Accessories)

X PDU Length
5 19" Horizontal
6 Vertical PDU
7 Home Series
8 10" PDU

Y Electrical Phase
1 Single Phase
3 Three Phase

ZZ Socket Number

QQ Socket Type
00 Schuko German
U UK
U French (UPS)
C C13
D C19
K Locked C13
L Locked C19

FF Number of Protection

NN Protection/Control Type
F Circuit Breaker
S On/Off Switch
P Surge Protector
A Ampermeter
V Voltmeter
M Volt/Ampermeter
W Multimeter
E EMI Filtered Surge Protector
BF Button Fuse
BL Button Fuse with Light
L Light

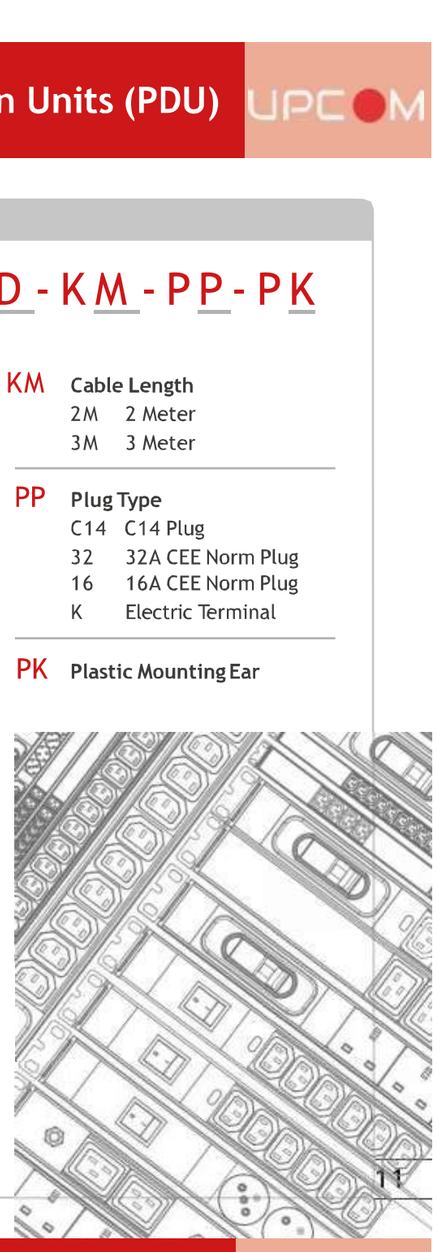
JJ PDU Height
42 42 U
.....
36 36 U

DD Cable Diameter
00 3x1,5mm2
01 3x2,5mm2
02 3x4mm2,
03 3x6mm2
05 3x10mm2
10 5x1,5mm2
11 5x2,5mm2
12 5x4mm2
13 5x6mm2

KM Cable Length
2M 2 Meter
3M 3 Meter

PP Plug Type
C14 C14 Plug
32 32A CEE Norm Plug
16 16A CEE Norm Plug
K Electric Terminal

PK Plastic Mounting Ear



Protection and Control



Circuit Breaker

Automatic fuses protect your devices by automatically cutting the electrical current in case of excessive current or short circuit in the electrical installation.

It can also be turned on and off manually.

Power and brand on demand.



ON/OFF Switch

With the ON/OFF switch, you can manually pass through or cut the electrical current in your devices.

Our ON/OFF switches are illuminated and show that there is energy by illuminating during the "ON" position.



Volt/Ampermeter

Volt/ampermeter does not provide protection for your devices. You can instantly monitor the voltage and current on your device.



Button Fuse

The button will go up in case of overload,only needs to be pushed back to be set again.

It is responsive and could not be turned on or off manually.



EMI Filter

EMI Filters protect against the harmful impacts of electromagnetic interference by reducing high frequency electronic noise.



Surge Protector

One of the biggest risks for electrical equipments is the sudden voltages spikes that lightning or similar interference can cause.

These voltages can cause severe damage to electrical devices.

Surge protector (arrestor) protect devices from voltage spikes in alternating current (AC)



Multimeter Screen

Multimeter Screen does not provide protection but allows you to locally meter:

- Volt / Amper
- Watt
- Environment Temperature
- Total Operating Time
- KwH for operating time
- Power Factor



Residual Current Fuse

The Residual Current Fuse, which closes itself automatically in cases such as the failure of the connected devices, liquid spillage, deformation of the cables, and someone touching the energized areas, prevents any damage from electric shock, and ensures instant shutdown of the system even in the smallest uncontrolled current (30 mA).

Power Distribution Units (PDU)

Schuko (German / DIN49440) Socket Power Distribution Units

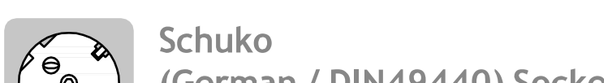
Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 16A (220 V AC) Power
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand (2+ Sockets)
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates





Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch















Multimeter



Power Distribution Units (PDU)

Power Distribution Units (PDU)

UPS (French / DIN49441) Socket Power Distribution Units

Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 16A (220 V AC) Power
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand (2+ Sockets)
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates





Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch



Circuit Breaker



Button Fuse



EMI Filter with Surge Protector



Surge Protector



Residual Current Fuse



Volt/Amperemeter



Multimeter



Power Distribution Units (PDU)

Power Distribution Units (PDU)

UK (BS1363) Socket Power Distribution Units

Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 13A (220 V AC) Power
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates



Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch



Circuit Breaker

Button Fuse



EMI Filter with Surge Protector



Surge Protector



Residual Current Fuse



Volt/Amperemeter



Multimeter



Power Distribution Units (PDU)

UK (BS1363) Socket Power Distribution Units

Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 13A (220 V AC) Power
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates





Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch



Circuit Breaker



Button Fuse



EMI Filter with Surge Protector



Surge Protector



Residual Current Fuse



Volt/Amperemeter



Multimeter



Power Distribution Units (PDU)

Power Distribution Units (PDU)

IEC320 (C13-C19) Socket Power Distribution Units

Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 10A (220 V AC) Power for C13 Sockets, 16A(220 V AC) Power for C19
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand (1+)
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates





Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch



Circuit Breaker



Button Fuse



EMI Filter with Surge Protector



Surge Protector



Residual Current Fuse



Volt/Amperemeter



Multimeter



Power Distribution Units (PDU)

Power Distribution Units (PDU)

IEC320 (C13-C19) Socket Power Distribution Units

Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 10A (220 V AC) Power for C13 Sockets, 16A(220 V AC) Power for C19
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand (1+)
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates





Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch



Circuit Breaker



Button Fuse



EMI Filter with Surge Protector



Surge Protector



Residual Current Fuse

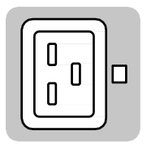


Volt/Amperemeter



Multimeter







IEC320 (C13-C19) Socket Power Distribution Units

Features

- Aluminum Body (Grey or Black)
- Fire Retardant Nylon6 Sockets
- 10A (220 V AC) Power for C13 Sockets, 16A(220 V AC) Power for C19
- Way Rotating Metal Mounting Ear or Fixed Plastic Mounting Ear Option
- Protection and Control Options
- Horizontal (1U - 2U) or Vertical Mounting Options
- Socket number on demand (1+)
- Combinations with different socket types
- Cable Length,diameter and Plug type on demand

Technical Features

Max. Output Power	4000 W - 24000 W
Nominal Input Voltage	100 V - 250 V
Max. Total Current Draw	16 A - 63 A
Operable Humidity	% 5-95
Operable Temperature	-5˚C - +45˚C
Storage Temperature	-25˚C - +65˚C

Certificates

TURK PATENT TASARIM TESCIL BELGESI No: 2021 004072



Vertical PDU Configurations Options Available

Without Protection



ON/OFF Switch



Circuit Breaker



Button Fuse



EMI Filter with Surge Protector



Surge Protector



Residual Current Fuse



Volt/Amperemeter



Multimeter



FOK



FOK Cable Blowing Machine provides an excellent flexibility and compact design to the users offering a complete solution. Capable of installing the cables Fiber optic cable and micro duct. In a range of Ø 9 to 22 mm diameter and duct outer diameter (OD)may vary 20mm to 50 mm.FOK Machine is engineered for blowing Fiber optic cables in preinstalled ducts.This multifunctional machine is easy to use for the installation of cables and micro-ducts by air and covers a wide range of cable diameters.

FOK Machine has a significant productivity and it considerably increases your labor's production capacity. A special and carefully designed pallet system assuring an excellent cable drip and decrease the damage risk. Clamping system adjust the cable outer diameter fluctuation/tolerance. In addition to that, its high-techengineered design and structure improve blowing performance. Each and every part of machine areengineered and produced to meet and exceed the expectation of customer requirements.

FOK Machine is a Fiber optic cable blowing machine designed to blow cables into preinstalled telecommunication ducts and micro ducts by using of compressed air. Having 3 pallet options as 9-14mm, 14-18mm and 18-22mm to blow the cables having min 9mm to max. 22mm with a speed of 80m/min. Duct diameter can be in the range of 20 mm to 50 mm. Special pallet design will allow you to install your cables under muddy field conditions and Cable Blowing Power will not be decreased. You can set cable installing speed and direction with control valve.

A wisely designed exit box will supply highly productive leading for pressured air into telecom ducts. Quick air connection makes your business easier with an easy plug-in method. You can transfer lubricant oil onto pre-installed duct with the shock lubrication system to reduce friction between duct and cables. Two air motors will ensure to continuous high effective cable blowing power. You are capable of switching on or off the air entering into telecom ducts with guidance of valves. Festo Lubricant system takes off moisture of pressured air which comes from compressor and supplies continuous lubricate for air motors.

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FOK CONTENT

CONSISTING OF

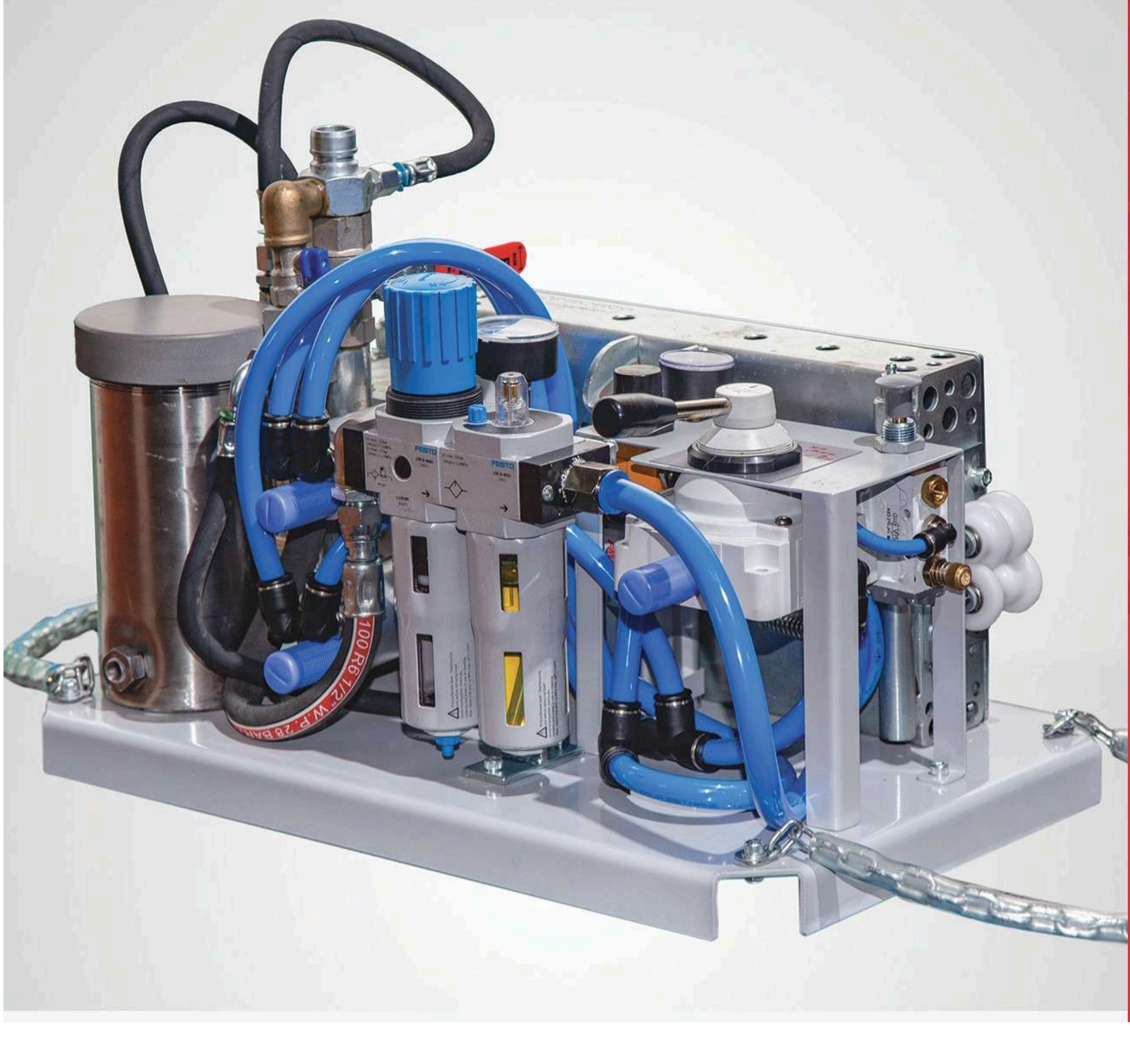
- **1set** (2pcs) of Pallet (1)
- **1pcs** Duct Lubricant System (2)
- **2pcs** Air Motor (3)
- **1pcs** Air Lubrication System (4)
- **1set** Cable Aligning Parts (5)

WITH OUT

- Air Cooler
- Lubricant Oil
- Air Compressor

WITH

- **1pcs** Operator Guide
- **1pcs** Cable Inserts(7)
- **1set** Duct Inserts(8)
- **1set** Blue Nutring (9)
- **2m** Black Rubber O-Ring (10)
- **1pcs** Protected Wooden Case with holder (11)
- **1pcs** Quick Insert Air Jack (12)
- **1set** Tool Kit (13)
- **1pcs** Box for plastic tools



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TECHNICAL DATA

FOK

Standard version	2pcs of pneumatic motor drive
Type	FOK
Cable dia. [mm]	**9-23**
Pallet Options (mm)	9-13/14-18/19-23
Duct OD [mm]	20-50
Drive unit	Pneumatic
Max. air consumption of 1pcs of motor [m3/min]	3m 3/ min (at 6 bar)
Torque Nm – Max. Power	8.5 Nm x 2 Pieces
Max. distance to blow at once (Cable Dia. 12mm – Duct Dia. 40mm) (m)	3000
Linear pressure on cable [N/cm]	0-101
Max. speed [m/min]	80
Max. air pressure [bar]	16
Max. water pressure [bar]	23
Dimension of apparatus with case l x w x h [mm]	380 x 610 x 440
Dimension of tools and accessories case l x w x h [mm]	380 x 610 x 440
Weight of machine [kg]	40
Total weight [kg]	**57**



FOK MACHINE PARTS

Quick Pipe Conneciton .1

Easy Duct Connection .2

Rubber coated chain for pushing cable without skidding .3

Cable aligning parts to blow cable ahead .4

Pressure regulator with piston group to regulate pushing force on cable and tomake up&down movement automaticaly .5

Direction control valve for pushing and pulling fiberoptic cable .6

Air lubricating unit to lubricate air motors during cable blowing .7

Pressure regulating unit to regulate air pressure on air motors .8

Two air motors pushing cable together.9

Duct lubrication unit to lubricate duct during cable blowing .10

HIDRO-FOK

Hidro-FOKCable Blowing Machine is designed and properly engineered to blow Fiber Optic Cables and Micro tubes in HDPE ducts. This fiber optic cable blowing machine is equipped with Hydraulic motors. Hidro-FOK is working with hydraulic power unit. Micro Tubes can be blown any quantity of Micro Duct with the suitable pallet.Hydraulic motors are making Hidro-FOKthe most powerfull cable blowing machine among our machines. Hydraulic Motor are much stronger compared to Air Motor. Hidro-FOK machine is engineered to get highly effective and very safe method of fiber optic cable installation.

With its compact and dynamic outfit blowing machine, you can handle cables. Hydraulic typecable blower machine is an ideal choise for location our city (rural area) and also for long haul cable installation.A best designed machine which runs on hydraulic power, a heavy duty model hydraulic power pack. You need to change palette group and some parts to modify machine from tube to cable blowing machine or reverse. Hydraulic Power is the equipment to be used with Hidro-FOK Machine.

Capable of installing the Fiber Optic Cables & Micro Ducts -Fiber optic cable and microduct-. For cables Ø 9 to 25 mm and ducts OD 20 to 60 mm. Its high effectiveness significantly increases daily production. The pallet drive system ensures excellent cable grip without damage and the Pneumatic system absorbs cable diameter tolerances. In addition to that, its high tech engineered design and structure improve blowing performance. Each and every part of machine are engineered and produced to meet and exceed the expectation of customer requirements.



Hidro-FOK Machine is a Fiber optic cable blowing machine designed to blow cables into preinstalled telecommunication ducts and micro ducts by using of compressed air. Having 3 pallet options as 9-13mm, 14-18mm and and 189-252mm to blow the cables having min 9mm to max. 19-25 mm with a speed of 80m/min. Special pallet design will allow you to install your cablesunder muddy field conditions and Cable Blowing Power will not be decreased. You can set cable installing speed and direction with hydraulic control valve. A wisely designed exit box will suppy highly productive leading for pressured air into telecom ducts. Quick air connection makes your business easier with an easy plug in method. You can transfer lubricant oil onto pre-installed duct with the shock lubrication system to reduce friction between duct and cables. Your installing power never decrease with two hydraulic motors. You are capable ofswitching on or off the air entering into telecom ducts with guidence of valves.

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HIDRO-FOK

CONTENT

CONSISTING OF

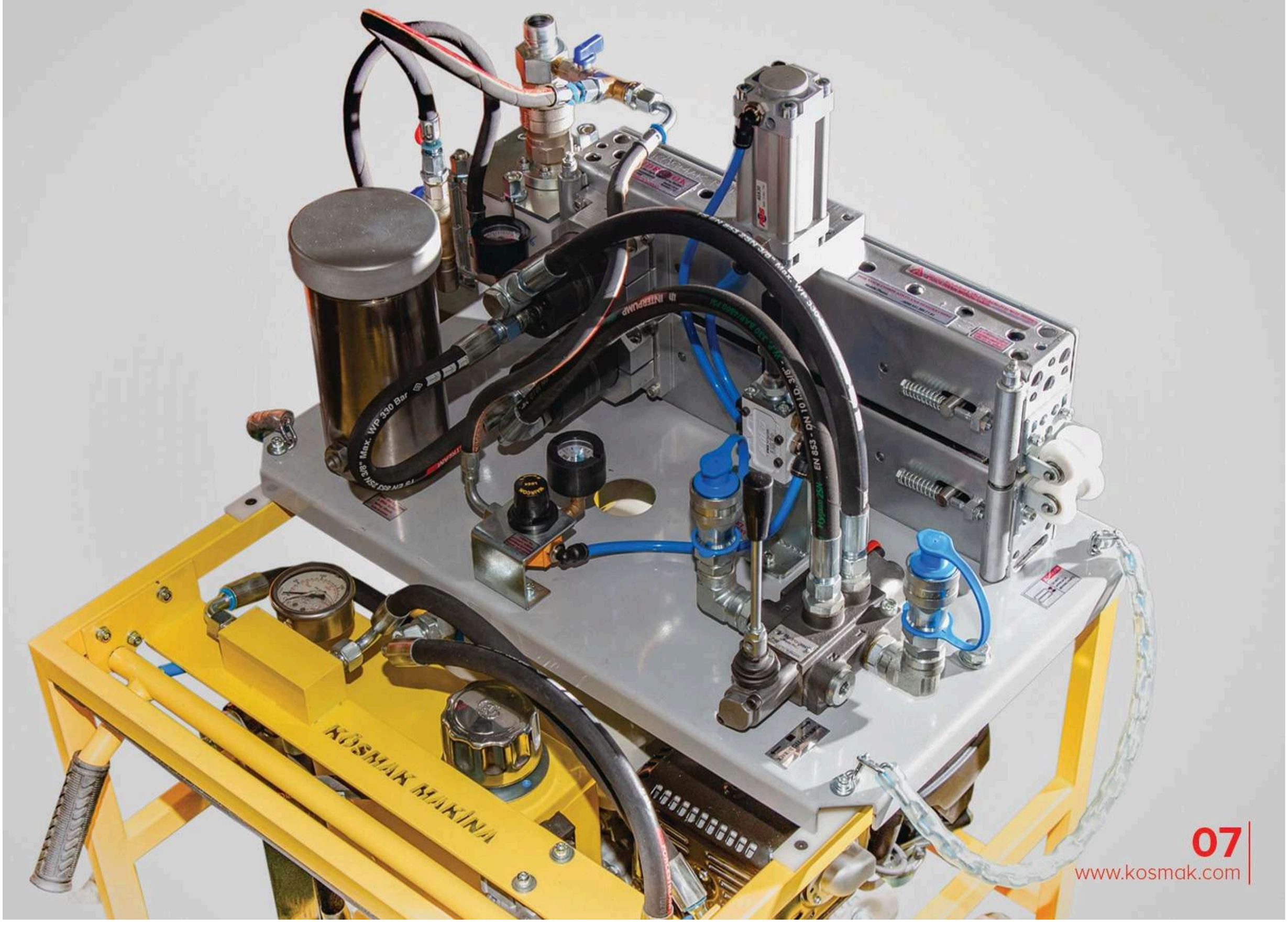
- **1set** (2pcs) of Pallet
- **1pcs** Duct Lubricant System
- **2pcs** Hyraulic Motor
- **1pcs** Hydraulic Power Unit with Honda GX-270 Benzine Engine
- **1pcs** Exit Box

WITH OUT

- Air Cooler
- Lubricant Oil
- Air Compressor

WITH

- **1pcs** Operator Guide
- **1pcs** Cable Inserts
- **1set** Duct Inserts
- **1set** Blue Nutring
- **2m** Black Rubber O-Ring
- **1pcs** Protected Wooden Case with holder
- **1pcs** Quick Insert Air Jack
- **1set** Tool Kit
- **1pcs** Box for plastic tools



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TECHNICAL DATA

HIDROFOK

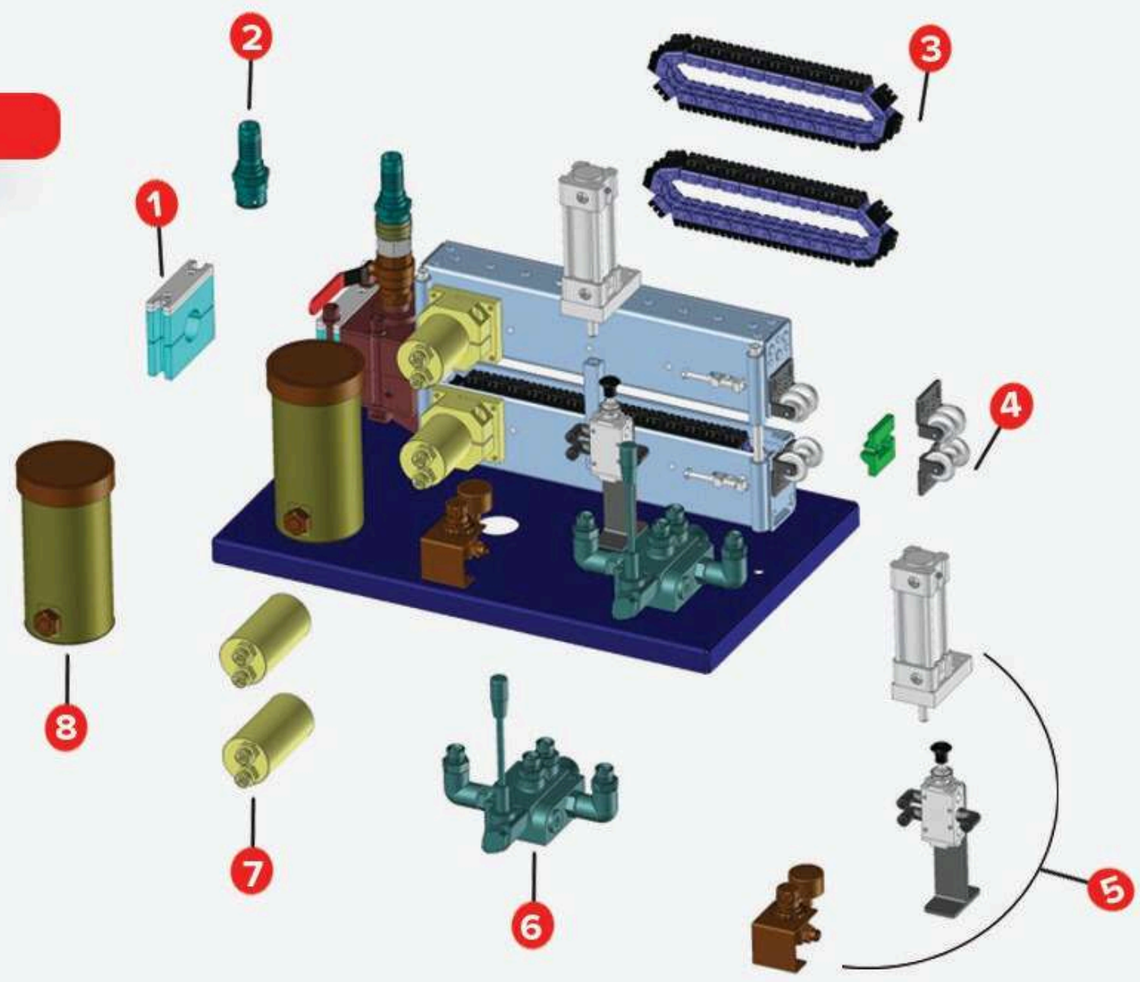
Standard version	2pcs of hydraulicmotor drive
Type	HIDROFOK
Pallet Options (mm)	9-13/14-18/19-24
Cable dia. [mm]	9-24
Duct OD [mm]	20-60
Drive unit	Hydraulic Power Unit
Max. oilcirculation of 1pcs of motor [liter/min]	20
Torque Nm – Max. Power	80
Distance to blow at once max. (Cable Dia. 12mm – Duct Dia. 40mm) (m)	3000
Linear pressure on cable [N/cm]	0-101
Max. speed [m/min]	80
Max. air pressure [bar]	16
Max. water pressure [bar]	23

Hydraulic Power Unit + Cable Blowing Machine	
Dimension of apparatus with case l x w x h [mm]	740 x 1200 x 740
Total weight [kg]	170

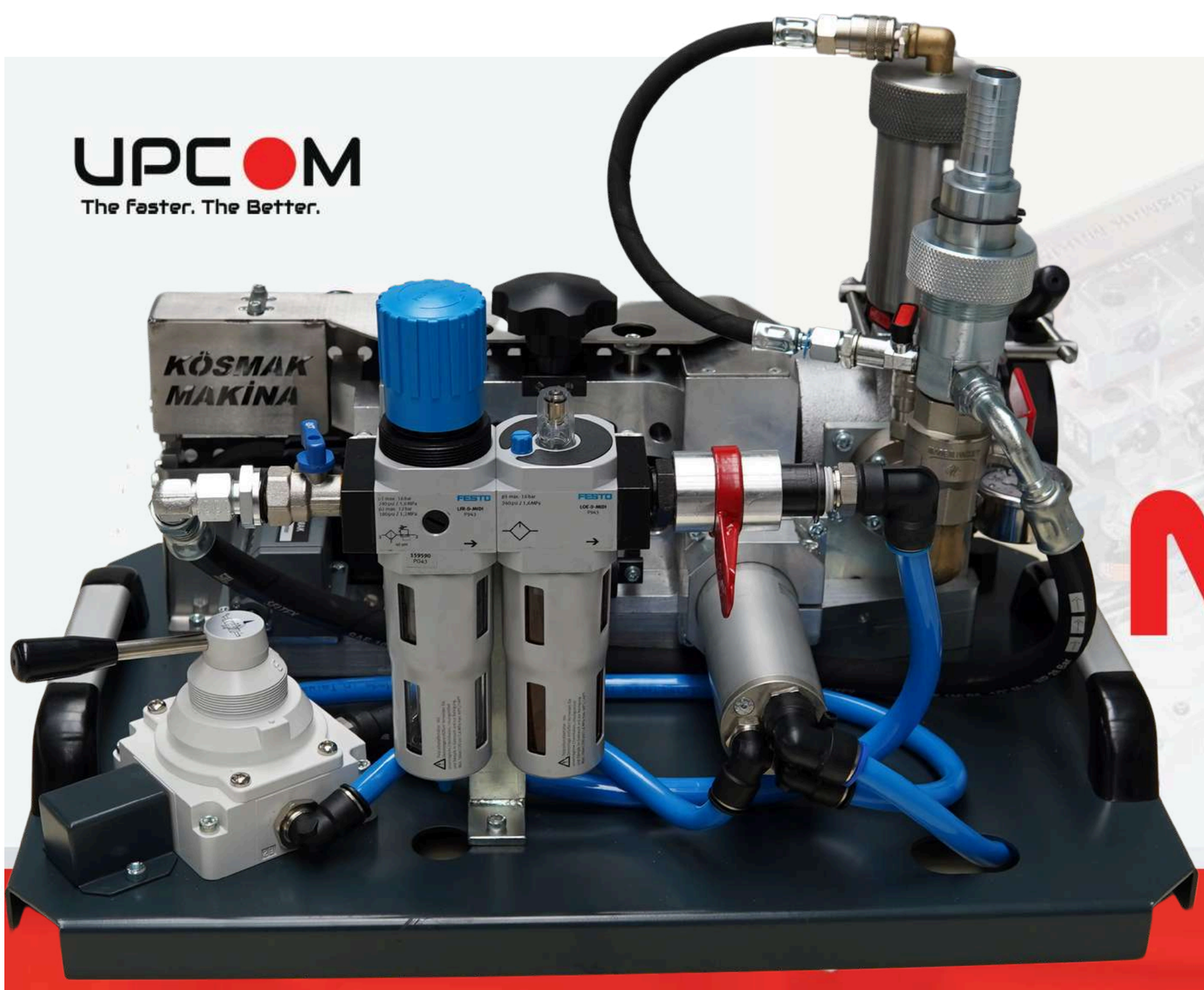
MACHINE PARTS

Hydraullic Fiber Blowing Machine & Hydraullic Power Unit

1. Easy Duct Connection.
2. Quick Pipe Connection.
3. Rubber coated chain for pushing cable without skidding.
4. Cable aligning parts.
5. Pressure regulator with piston group to regulate pushing force on cable and to make up&down movement automaticaly.
6. Direction control valve for pushing fiberoptic cable forward ot backward
7. 2 hydraulic motors to push the cable.
8. Duct lubrication unit to lubricate duct during cable blowing



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MINI FOK

Mini-FOK Cable Blowing Machine provides an excellent flexibility and compact design to the users offering a complete solution. Allows you to blow the cables -micro type cable and micro-duct-.Mini-FOK Cable Blowing Machine can install the cables in a range of Ø 2,5 to 16 mm and various ducts outer diameters7 to 40mm are available upon request. Customized Duct diameter can be made upon request. Mini-FOK is engineered for blowing telecommunication cables or micro ducts in preinstalled ducts.This multifunctional machine is easy to use for the installation of cables, micro-cables or micro-ducts by air and covers a wide range of cable diameters.

Mini-FOK Machine has a significant productivity and it considerably increases your labor's production capacity. A special and carefully designed pallet system assuring an excellent cable drip and decrease the damage risk. Clamping system adjust the cable outer diameter fluctuation/tolerance. In addition to that, its high-techengineered design and structure improve blowing performance. Each part of machineisengineered and produced to meet and exceed the expectation of customer requirements. Mini-FOK it is equipped with a distance and speed indicator.

Mini-FOK is a Fiber optic cable blowing machine designed to blow cables into telecommunication ducts and micro ducts by using of compressed air. Having 3 pallet options as **2,5-4mm, 5-8mm, 9-12mm and 13-16mm** to blow the cables having min. 2,5mm to max. 16mm. This fiber optic cable blowing machine works with one air motor for blowing the cables and tubes. Due to 1 air motor,it can perfectly blow fiber optic cables into ducts. So, it's a perfect choice If fiber optic cable diameter is 6mm and duct diameter is 16mm.

Special pallet design will allow you to install your cables under muddy field conditions and Cable Blowing Power will not be decreased. You can set cable installing speed and direction with control valve. A wisely designed exit box will supply highly productive leading for pressured air into telecom ducts. Quick air connection makes your business easier with an easy plug-in method. It's completely Made in Turkey with international standards.

Single air motors will ensure to continuous high effective cable blowing power. You can switch on or off the air entering telecom ducts with guidance of valves. Festo Lubricant system takes off moisture of pressured air which comes from compressor and supplies continuous lubricate for air motors.

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MINI-FOK CONTENT

CONSISTING OF

- 1set (2pcs) of Belt
- 1pcs MechanicalMeter Indicator
- 1pcs Air Motor
- 1set Cable Aligning Parts
- 1pcs Direction Valve Backward and Forward Directions

WITH

- 1pcs Operator Guide
- 1pcs Cable Inserts: Options 4mm to 8mm
- 1set Duct Inserts
- Up to 30pcs Blue Nutring (6pcs per Cable Dia)
- 2m Black Rubber O-Ring
- 1pcs Protected Wooden Case with holder
- 1pcs Quick Insert Air Jack
- 1set Tool Kit
- 1pcs Box for plastic tools

WITH OUT

- Air Cooler
- Lubricant Oil
- Air Compressor

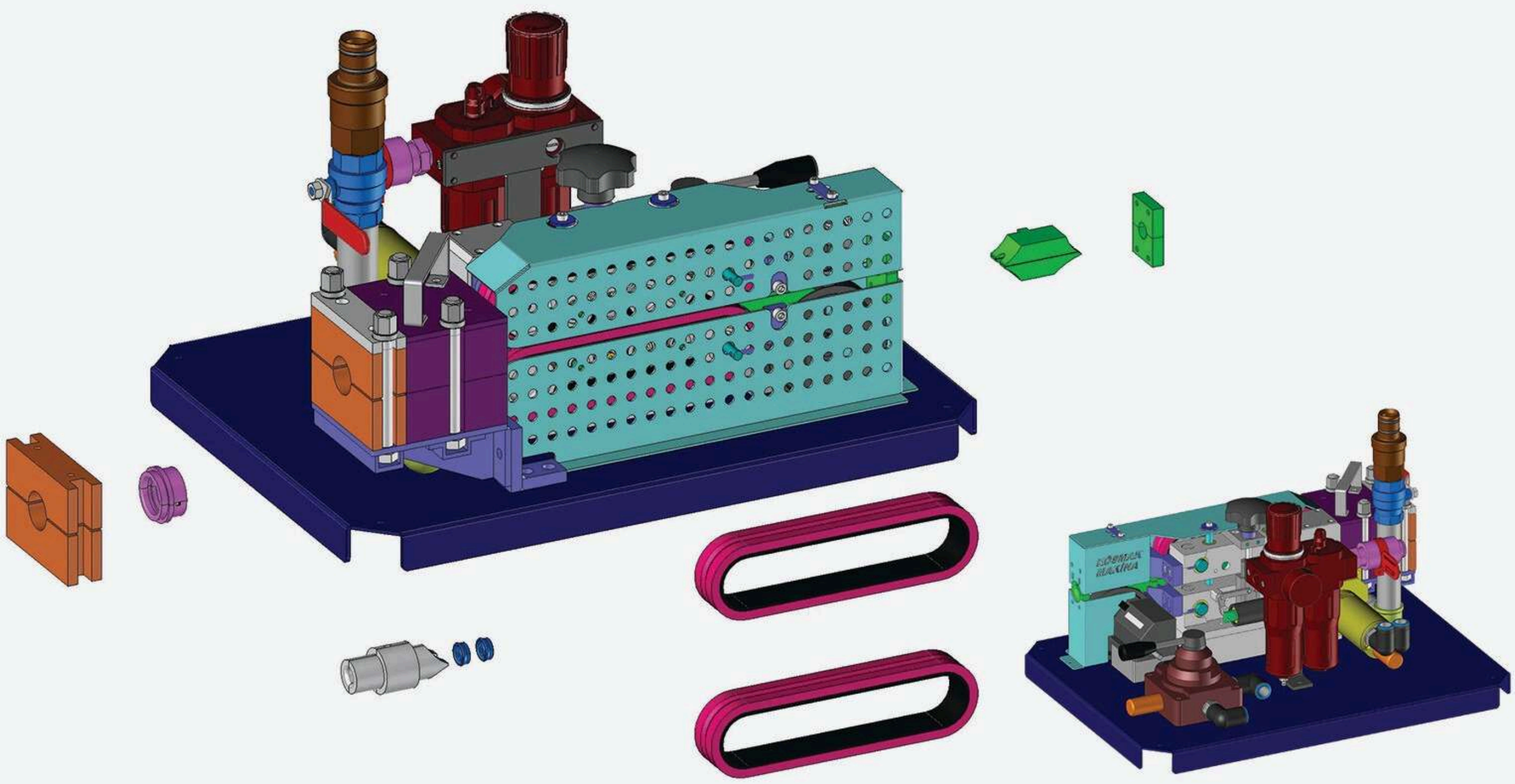


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TECHNICAL DATA

MINI-FOK

Standard version	1pcs of pneumatic motor drive
Type	MiniFOK
Pallet Options (mm)	2,5-4/5-8/9-12
Cable dia. [mm]	2,5-12
Duct OD [mm]	7-40
Drive unit	Pneumatic
Max. air circulation of motor [m3/min]	1.5 (at 6 bar)
Torque Nm – Max. Power	8,5
Max. distance to blow at once (Cable Dia. 6mm – Duct Dia. 16mm) (m)	1500
Linear pressure on cable [N/cm]	0-101
Max. speed [m/min]	80
Max. air pressure [bar]	16
Max. water pressure [bar]	23
Dimension of tools and accessories case l x w x h [mm]	470x420x620
Total weight [kg]	47



MIKRO FOK

Mikro-FOK is designed and produced meeting the expectation of end of users. The Mikro-FOK cable blowing machine installs microcables and its versatility saves your money. The design of the Mikro-FOK provides for quick and easy component changes for different cable or duct sizes. Its compact size and portable maneuverability make the Mikro-FOK is ideally suited for either outside or in-building use.
The Mikro-FOK uses compressed air to install the cable. The drive roller powered byair motors. Cable pusher rolls can change easily.One air inlet from compressor with quick connection. Quick connection part is giving with machine. Easily changeable for different cables.



MIKRO FOK

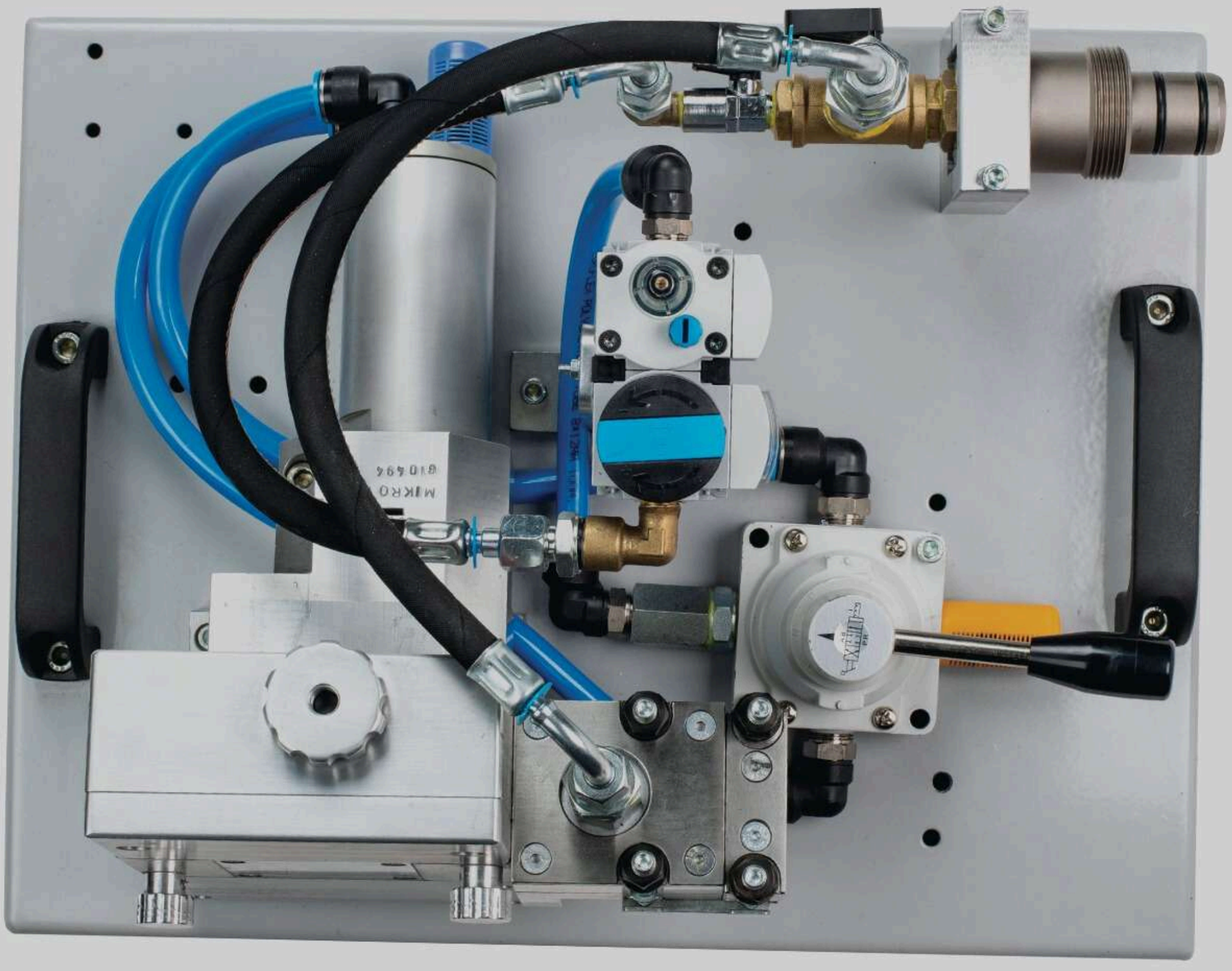
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TECHNICAL DATA

Mikro-Fok :	Micro Fiber Optic Cable Blowing Machine
Operatedbyone	technician
Cable diameter (mm) :	0,8 to 8
Duct diameter(mm) :	8 to 15
Dimensions of Machine (cm) :	42x32x51
Weight of Machine(kg) :	28
Cable installing velocity :	0-80meter/minute.
Direction :	Forward and backward

COMPRESSOR CAPACITY RECOMMENDATION

Efficiency	1 m3/min
Working pressure	12bars



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DRILL FOK



Drill-FOK has no internal motor but only external motor such as cordless chargeable drill river. The Drill-Fok installs micro cable with a diameter range of 1, 5 to 10 mm and up to 1000 m with a speed of 110 m/min depending on your external motor. Its compact design makes your business incredibly easy. The cable blowing system structure ensures a fast and simple change of components for various cable diameter or duct diameters. Ergonomic design and mobility features make the Drill-Fok is ideal for either outside or in-building use. The Drill-Fok uses compressed air to install the cable. The drive roller, powered by most types of cordless drills-that should be ordered separately-control the microfiber as it is propelled into the micro duct. The drill-Fok machine takes the name from drilling tool because you do not need to use an internal motor with this machine you only need to use a standard drilling tool.



DRILL FOK
CONTENT

CONSISTING OF

- 1set (2pcs) of RubberCoatedRoll
- 1pcs MechanicalMeterIndicator
- 1pcs HeadThreaded Drive Shaft

WITHOUT

- ChargeableDrillingTool
- LubricantOil
- AirCompressor

WITH

- 1pcs Operator Guide
- 1pcs –Cable Inserts: Options1,5mm to10mm
- 1setDuctInserts
- 30pcs Blue Nutring (6pcs per Cable Dia)
- 2m Black Rubber O-Ring
- 1pcs ProtectedWooden Case withholder
- 1pcs QuickInsertAirJack

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TECHNICAL DATA

DRILL-FOK

• Operatingwithexternal	drillingtool
• Micro DuctDiameter (mm):	3-18
• Cable diameter (mm):	1-8mm
• Max. Operating Pressure:	15bar
• MeterIndicator:	Mechnical
• BlowingDirection:	Forward and backward
• Quickconnection	pipe from compressor
• Max. BlowingDistance:	1000m
• BlowingSpeed:	90m/mindepends on external motorsspeedcapacity
• WeightwithoutPackage:	6
• GrossWeigtwithPackage:	18kg
• Dimensionswithpackage(cm):	27x32x28

Compressor Capacity Recommendation

Ducts upto	8mm – 0,8 m3/min
Ducts upto	8/12mm – 1,0 m3/min
Ducts upto	12-15mm – 1.5 m3/min

Theseareminimum compressorrequirements. Youmayusehighercapacity of compressorwhich can increasetheeffectiveness. You can overcomethehandicap of inproperlyinstalledducts.

Drive Roller, Cable AligningandDuctOptions

Drive Roller (mm)	Cable AligningTool &Nutrings (mm)	Duct Connection Tool (mm)
D1: 1.5-2.5	C1: 1.5-2.5	D: 3
D2: 2.5-4	C2: 2.5-4	D: 4
D3: 4-6	C3: 4-6	D: 5
D4: 6-8	C4: 6-8	D: 9
		D:13

ORDERING CODE

Drill-FOK	D1+2	C1+2	D3+5+13	Multiple Ordering
Machine	Drive Roller	Cable Aligning Tool &Nutrings	Duct Connection Tool	Multiple Ordering
Drill-FOK	D1: 1.5-2.5	C1: 1.5-2.5	D: 3	D8+12+15

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Y-BLOCK CONNECTOR



Y-connectoror Y Block Overflowis acableblowingaccessoryforoverblowingexistingcable in a ductwith a cableblowingmachine. In case of there is a cable already blown into duct you can blow another one or you can blow thethird cable.

WithoutY Connector overblowdevice you cannot increase cables as you cannot prevent air leaks. You can use this tool for different ducts and cables by cable seals and nutrings that we will be supplied with the product as per your requirements. Required ducts and cable diameters should be stated separately.

The Single Size Junction Box consist of an aluminum base and cover that structure a pressurized air chamber into which one finish of a current involved inner duct can be appended. The current cable can leave the case through an exit hole that has 3 cable seal spaces, one of which will house the seal to suit the size of the current cable. The third branch is then associated with a Cable Blowing Machine through a short slave length of inner duct for the deployment of the additional cable or tube(s). Required seals should be provided as the Y Connector doesn't include any accessories in shipping configuration

Y Connector Jetting Tools / Y blockoverblow devices are engineered to optimize the space in an existing occupied duct and enable you thedeployment of a 2ndcable, or multiple micro-ducts while blowing the Fiber Optic cables.For cables Ø 4 to 22 mm and ducts OD 20 to 63 mm.The blowing performance achieved with this device corresponds to around 50% of the one achieved with the first cable. This means that you will blow the second cable slower than the first one. One branch of the Y-Block Connectorconnected with the machine is utilized for feeding the second cable in the duct.Deployment distance accomplished with two extra cable is almost equivalent to the one got with one cable.

Features

1). Compact and light 2). Allows admittance to extremely small dia. chambers
3). Easy transportation 4). Easy maintenance
5). Easy control (allows you to use it in the two directions

TECHNICAL DATA

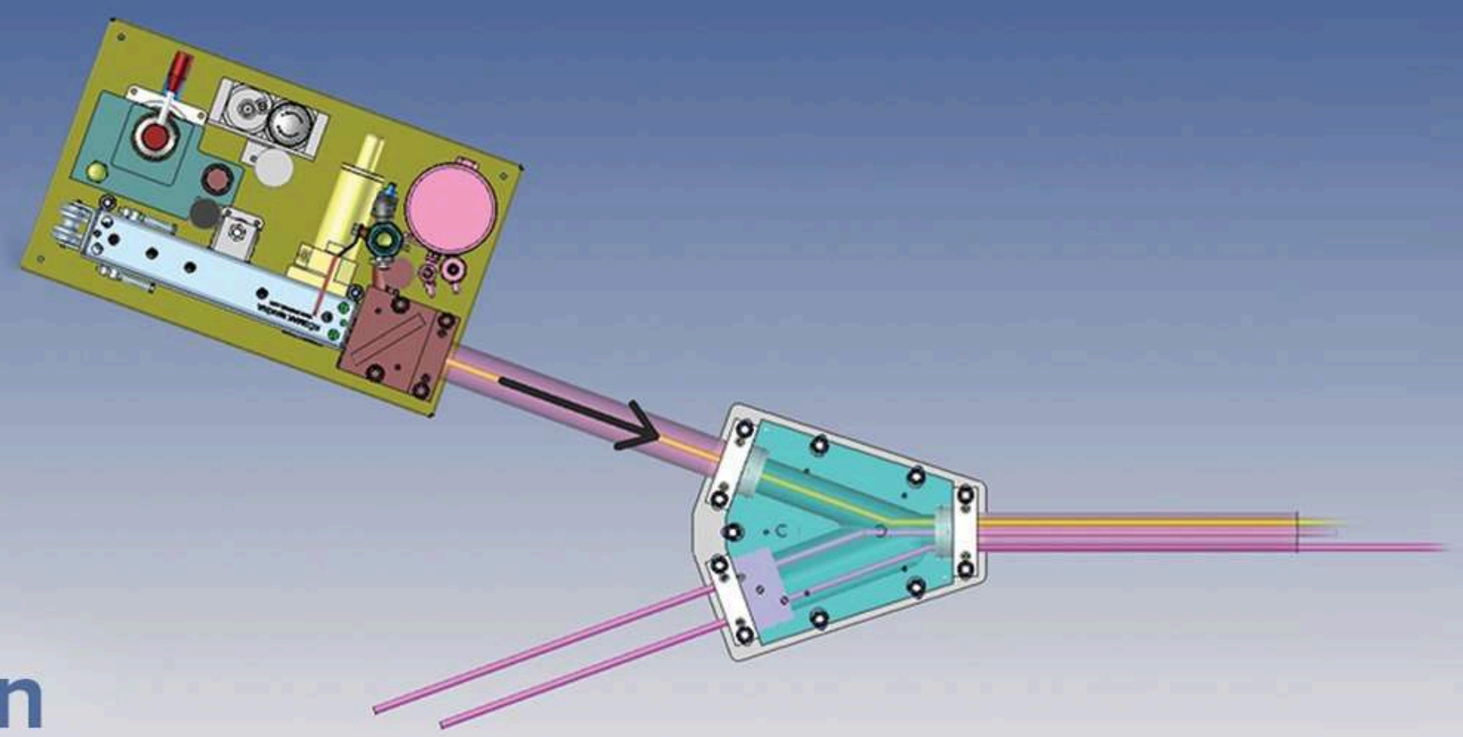
Standard version	Y-Connector
Type	Standard
Cable dia. [mm]	6-18
Duct OD [mm]	20-63
Max. Air pressure [bar]	12
Packed in Wooden Case:	Fumigated Plywood
Package Dimensions l x w x h [mm]:	370x 350 x 180
Total Net weight [kg]	14
Total Gross Weight [kg]:	17

HOW TO USE Y-BLOCK CONNECTOR

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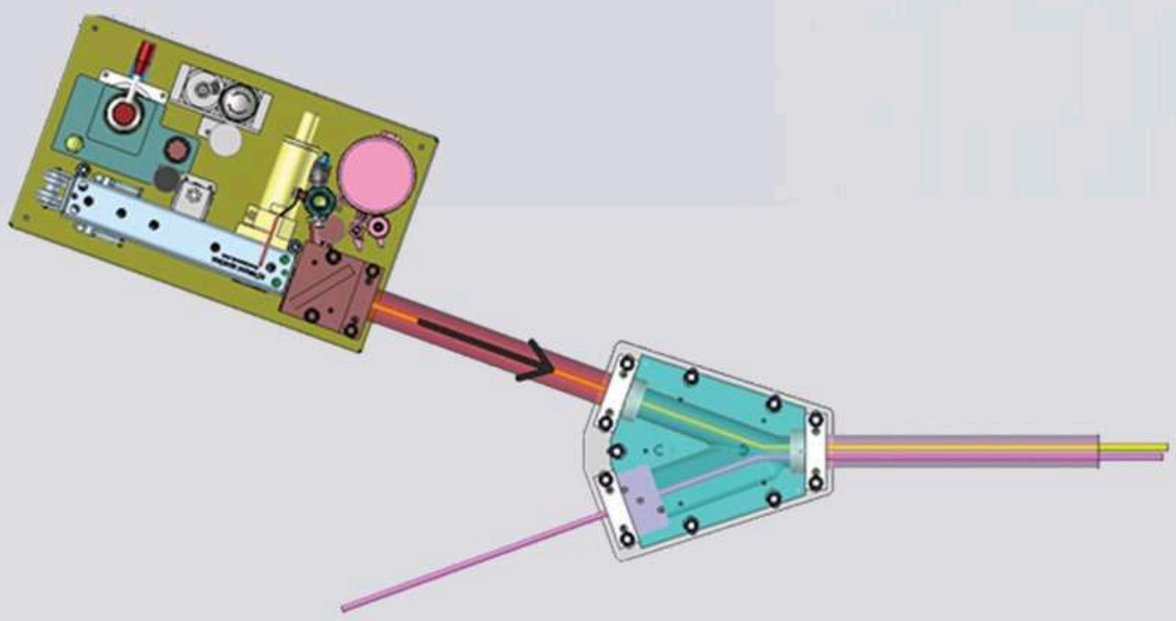
3 Cable Application

2 of Cables Are Fixed And 3rd cables is blown by the help of Y-Connector



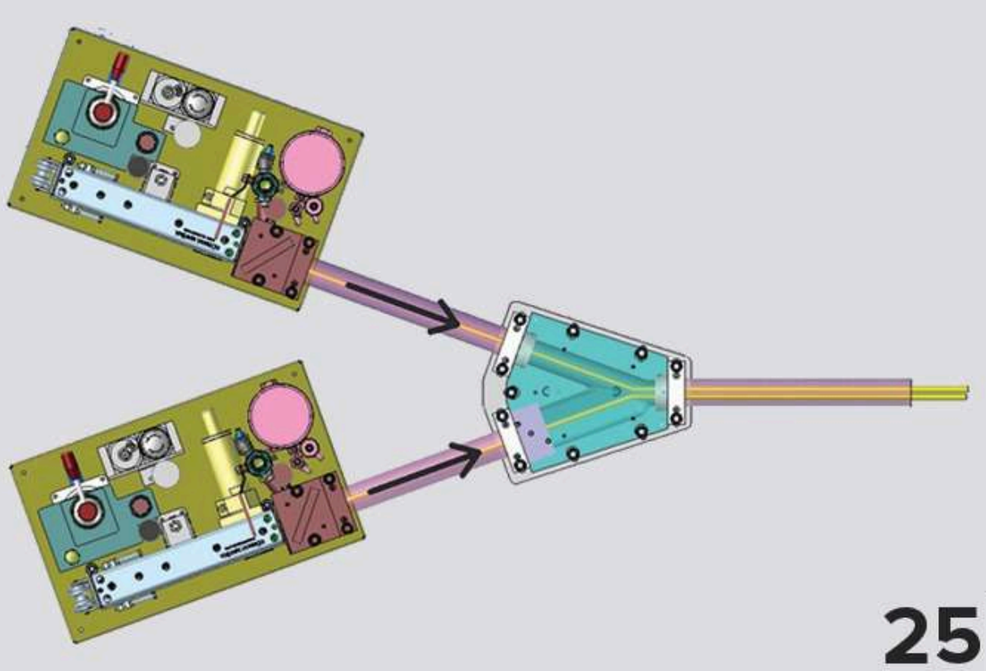
2 Cable Application

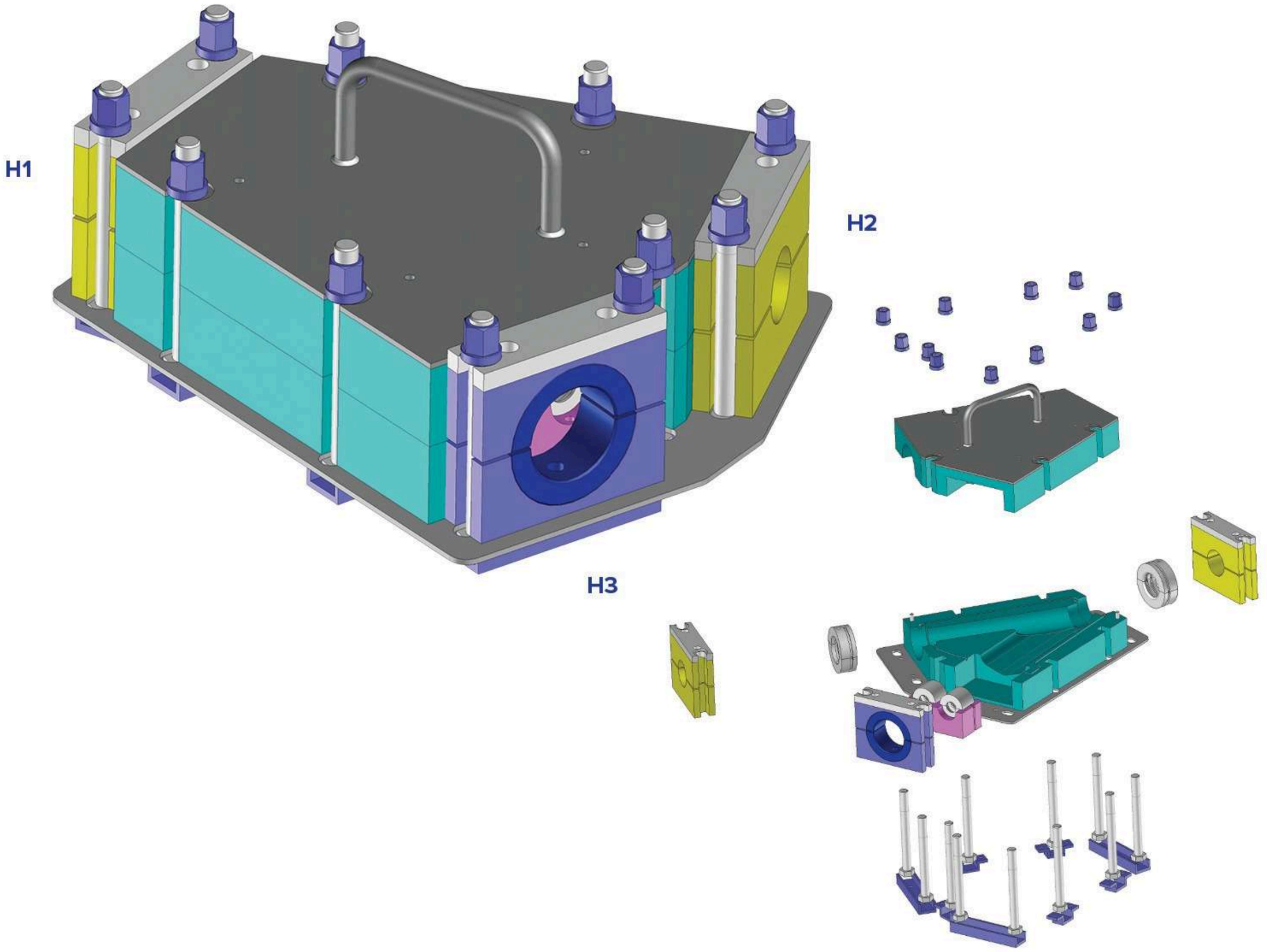
2 of Cables Are Fixed And 3rd cables is blown by the help of Y-Connector



2 Cable 2 Machine Application

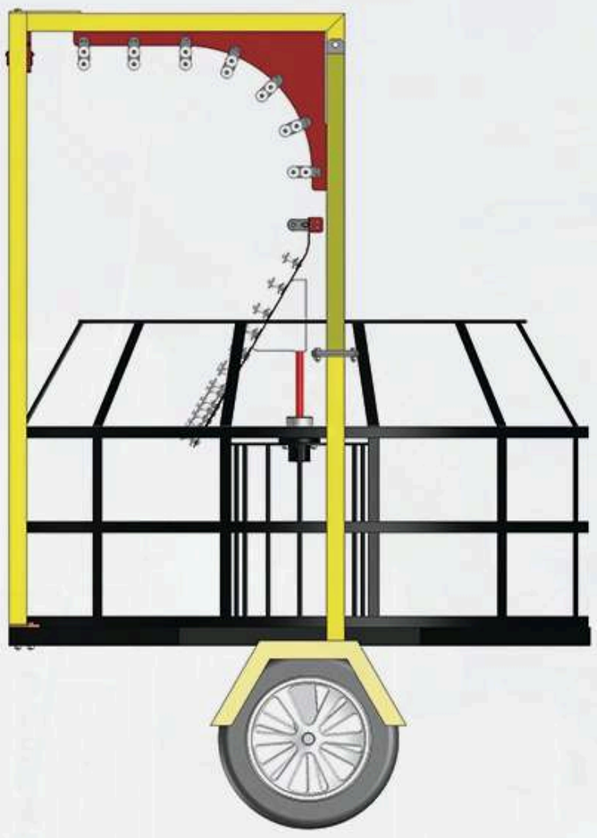
2 Cables Simultaneously Are Blown By 2 cables Blowing Machine.





Y-connector	H1 H2 H3	C1 =4-8 , C2= 9-13 , C3 = 14-18 , C4 = 19-25
Connector	HDPE Duct Parts	Cable Aligning Tool&Nutrings
Y-Connector	H1	C1
	Multiple Ordering	
	H1+3+4	

TRAILER MOUNTED CABLE FLEETER





The Trailer Mounted Cable Fleeter replaces the manual handling for "figure eighting" cable and gives extra protection and security to the cable. Following deployment of the cable in the first leg of duct route the balance of the cable is taken out from the drum and took care of into the Fleeter, thereby delivering the cable end ready for blowing into the second leg.

The Fleeting machineenables a smooth and simple system while assuring the cable safety from pedestrians or vehicles and prevents contamination from mud, soil or dust.

The Fleeter is built to operate with the cable blower, which delivers cable supply within and outside of the Fleeter.The unit hosts (3,000 meters) of (13mm) cable, allowing drum lengths of (6,000 meters) to be utilized.The Fleeting machineis made of a road going trailer chassis on which is mounted a cable storage cassette, rotating cable guide quadrant and duct clamp assembly.

TECHNICAL DATA

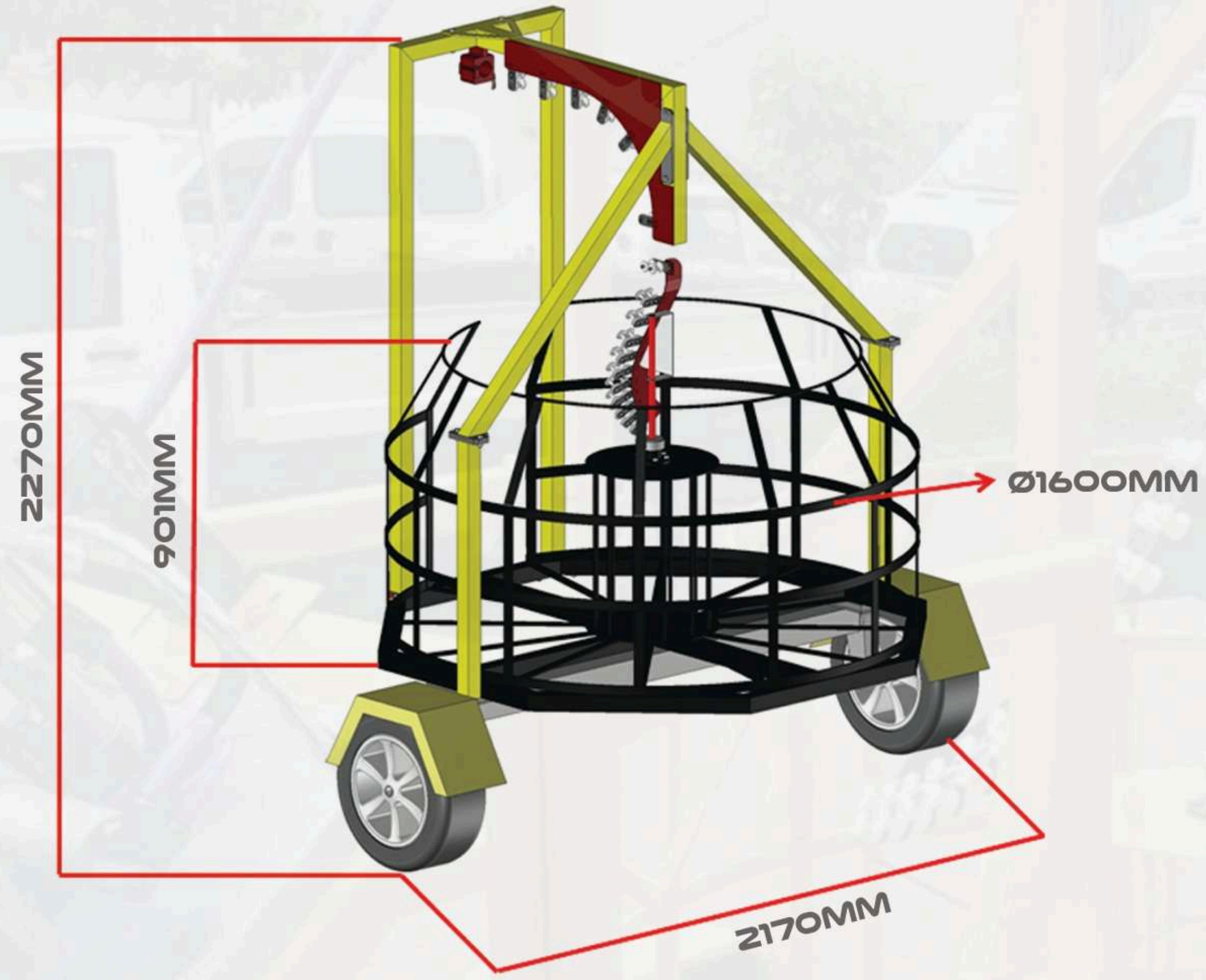
Drum Diameter Max:	1600 mm
Drum Diameter Min:	800mm
Tyres:	145 R10
Length:	3420mm
Width:	2300 mm
Height:	2330 mm
Weight:	325kg
Weight with box:	420 kg

UPCOM
The Faster. The Better.

AIR COOLER FEATURES

- Brakes: Interia type brakes with autoreverse
- Towing Hitch: Eye – 30mm, 40mm, 50mm
- Ball Type – 50mm

DIMENSIONS



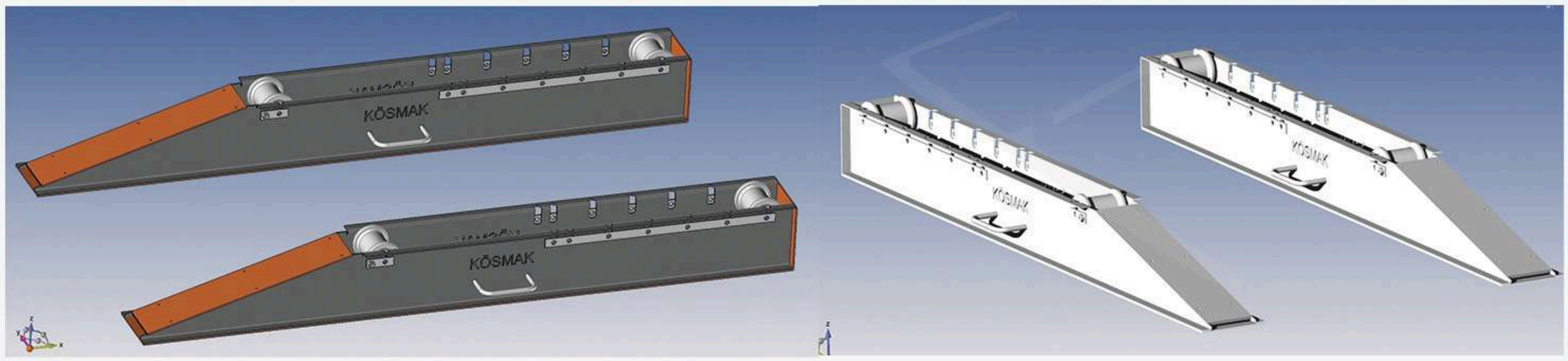
ORDERINGCODE

Cable Fleeter

Machine	Pallet Set	Cable AligningTool &Nutrings	Duct Connection Tool
Cable Fleeter	N/A	N/A	N/A

All accessories and toolsare included.

CABLE DRUM ROLLER



Cable Drum Roller is the tool for Rolling cable on it. You can use cable drum roller for different drum diameters and different widths. You shall change the place of rear roller to use machine for different cable drums. You can use cable drum roller for drums from 400 mm dia to 1500 mm diameter. It is handy structure allow you to to carry on your hand. This robust heavy duty adjustable cable drum roller set (also known as a wire drum roller) is ideal for despoilingand recoiling various cables during installations. Cable Drum Roller is manufactured from heavy duty fabricated painted mild steel and uses heavy duty rollers (which are also adjustable) to ensure any size drum should fit. Ramp entry and exit eases the loading and unloading of drums onto the rollers themselves

ORDERINGCODE

Machine	Pallet Set	Cable Aligning Tool &Nutrings	Duct Connection Tool
Cable Drum Roller	N/A	N/A	N/A

All accessories and tools are included.

Cable Blowing Lubricant

Anti-friction agents and lubricant

Performance



UNIVERSAL

Product Consistency	semi liquid
Cable installation	blowing machine
Application	cable threading
Installation type	industrial
Type of cable or piping	fiber optic



product code	wrapping	packaging	
UP-UNI1-5	bottle 1 kg	box 15 pz	
UP-UNI1-12	bottle 1 kg	box 12 pz	
UP-UNI1-06	bottle 1 kg	box 6 pz	
UP-UNI5	tank 5 kg	1 pc	
UP-UNI10	tank 10 kg	1 pc	
UP-UNI20	tank 20 kg	1 pc	
UP-UNI25	tank 25 kg	1 pc	

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Cable Blowing Lubricant

UP-S-LUB-20

Anti-friction agents and lubricants

UP-S-LUB-20 is a special lubricant for fiber optical installation for min and micro cable with blowing machine. It’s a water emulsion of different kind of polymers.
UP S LUB 20 is a water base product with high efficiently of lubricant. It’s reduce dramatically the friction. S LUB is white liquid little bet viscosity.
UP S LUB 20 adhere perfectly at the cable surface or at the internal surface of the pipe. It’s leave a very tiny film of lubricant and does not make the glue effect.
Product Use: Cable and Duct Pre-lubrication

Suggested Uses quantities for 1000m

internal duct diam Ø mm	Quantities of product (ml)
20 – 30	600
30 – 40	700
40 – 50	1000

The real quantities can be change due to a condition of the pipe or how is difficult the pipe long.

Product Consistency: Semi liquid
Cable installation: Blowing machine
Application: Cable threading
Installation type: Industrial
Type of cable or piping fiber optic duct internal diam size: 15 to 50 mm

Cable Blowing Lubricant

Use:

Shake the bottle before use, then put the product inside in the pipe. Then pre-lubricant the pipe with a little piece of sponge.

The product is also suitable for blowing machine with oil dispenser to lubricating the fiber during the pushing.

The UP S LUB 20, also can be useful to lubricate the fiber optic before or after blowing machine. It’s depend on the appliance with iron wheel or with rubber wheel.

Technical Specification:	White liquid tiny viscosity
Odor:	None
Viscosity:	120 sec. Ford cup diam. mm 4 at 20C°
Specific gravity:	1,030 +- 0,03 gr/cm3
pH:	7,5 +- 0,5
Inflammability:	Noninflammable
Temperature:	-5° + 70° C.
Biodegradability:	The product is biodegradable
Toxic:	The product is not toxic

Packaging:

Product Code	Wrapping / Packaging
VSLUB100XL05-12	bottle 500 gr / box 12 pc
VSLUB100XL1-15	bottle 1 kg / box 15 pc
VSLUB100XL1-12	bottle 1 kg / box 12 pc
VSLUB100XL1-06	bottle 1 kg / box 6 pc
VSLUB100XL5	tank 5 kg / 1 pc
VSLUB100XL10	tank 10 kg / 1 pc
VSLUB100XL20	tank 20 kg / 1 pc
VSLUB100XL25	tank 25 kg / 1 pc

Cable Blowing Lubricant



Cable Blowing Lubricant

UP-S-LUB-100XL

Anti-friction agents and lubricants

UP-S-LUB-100 is a special lubricant for fiber optical installation for min and micro cable for blowing machine cable installer. It’s a water emulsion of different kind of polymers.
UP S LUB 100 is a water base product with high lubricant efficiently. It’s reduce dramatically the friction. S LUB is white liquid little bit viscosity.
UP S LUB 100 adhere perfectly at the cable surface or at the internal surface of the pipe. It’s leave a very tiny film of lubricant and does not make the glue effect. Product Use: Cable and Duct Pre-lubrication
UP S LUB 100 has the same base products of S LUB 10 but is much more performance due a specific additives very active in this field to reduce the friction.

Suggested Uses quantities for 1000m

internal duct diam Ø mm	Quantities of product (mm)	How much the duct must be fill of the product (different kind of measure for the same quantities)
4	5	□ 30 cm
8	10	□ 20 cm
12	15	□ 15 cm

Product Consistency: Semi liquid

Cable installation: Blowing machine

Application: Cable threading

Installation type: Industrial

Type of cable or piping fiber optic duct internal diam size: from 4 to 12 mm

Cable Blowing Lubricant

The real quantities could change due to a condition of the duct or how is pipe long difficult Uses: Shake the bottle before use, then put the product inside in the duct. Then pre-lubricant the pipe with a little piece of sponge pushed by air compress. The product is also suitable for blowing machine with oil dispenser to lubricating the fiber during the pushing. The UP S LUB 100, also can be useful to lubricate the fiber optic before or after blowing machine. It’s depended on the appliance with iron wheel or with rubber wheel.

Technical Specification:	Aspect White liquid tiny viscosity
Odor:	Characteristic
Viscosity:	30 sec. Ford cup diam. mm 4 at 20C°
Specific gravity:	1,030 +- 0,03 gr/cm3
pH:	7,5 +- 0,5
Inflammability:	Noninflammable
Temperature:	0° + 70° C.

Packaging:

Product Code	Wrapping / Packaging
UP-VSLUB100XL05-12	Bottle 500 gr / box 12 pc
UP-VSLUB100XL1-15	Bottle 1 kg / box 15 pc
UP-VSLUB100XL1-12	Bottle 1 kg / box 12 pc
UP-VSLUB100XL1-06	Bottle 1 kg / box 6 pc
UP-VSLUB100XL5	Tank 5 kg / 1 pc
UP-VSLUB100XL10	Tank 10 kg / 1 pc
UP-VSLUB100XL20	Tank 20 kg / 1 pc
UP-VSLUB100XL25	Tank 25 kg / 1 pc

UPCOM

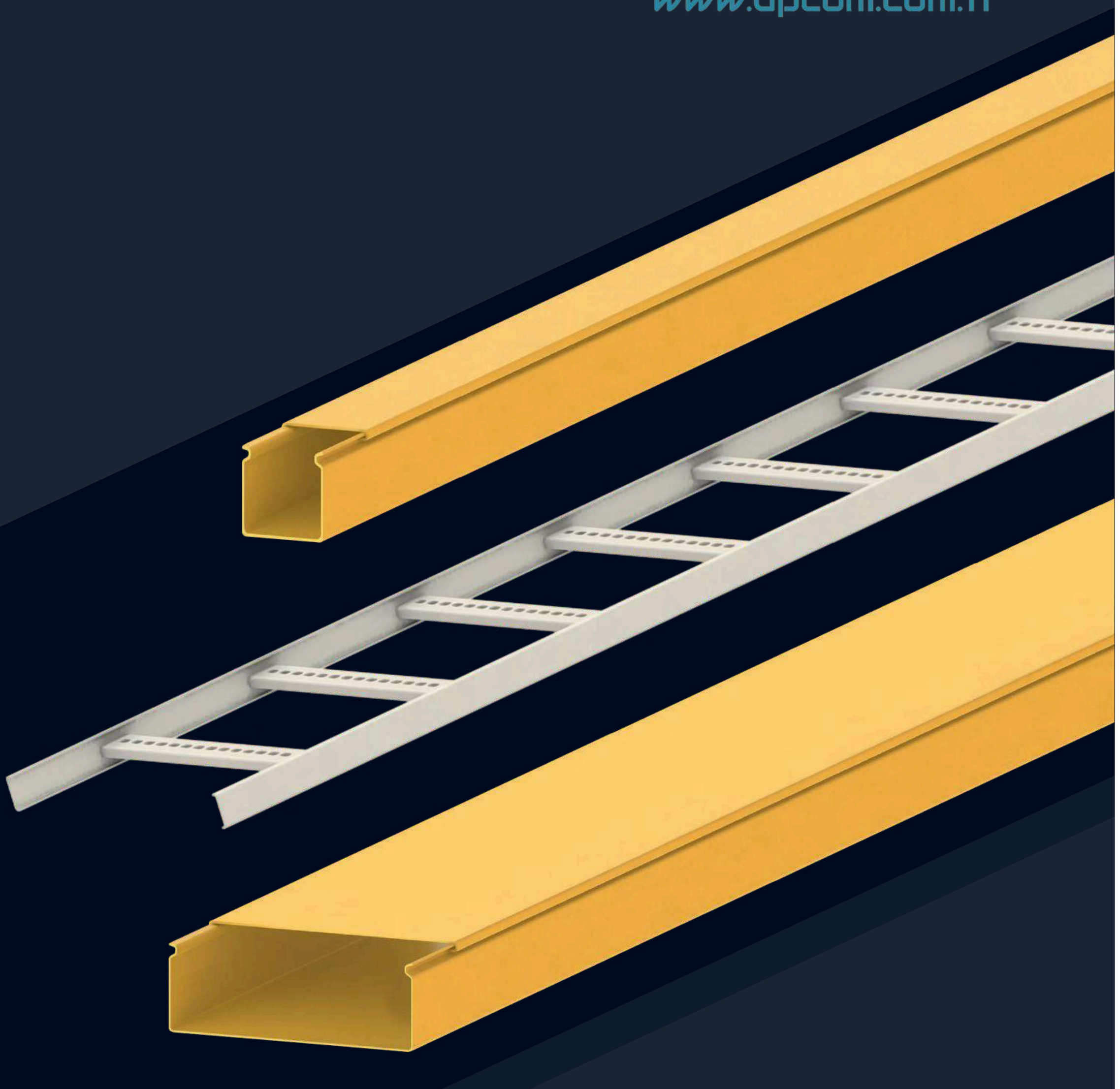
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CABLING STRUCTURES

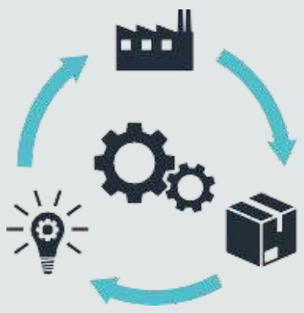
DOC-C-01/000-V2-EN

Upcom Telekomunikasyon is an ISO 9001 Certified Turkish company, and its Head Office is in Turkey. Its broad range of product portfolio includes Data Center Products, Fiber Optic & Copper Cables, Fiber & Copper Connectivity solutions for data center, Network equipment and Outdoor Field IP55 19” Cabinets.



20+ Years’ Experience

We have achieved several significant projects in telecommunication fiberopticinfrastructurewith our engineers having 20 years of experience.



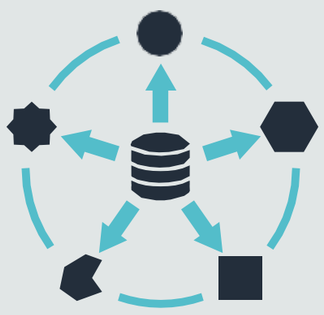
World Class Production

With systematic and scientific methods, we always focus on reachingthehighestqualityinourfiberopticcableproduction andassemblylines.



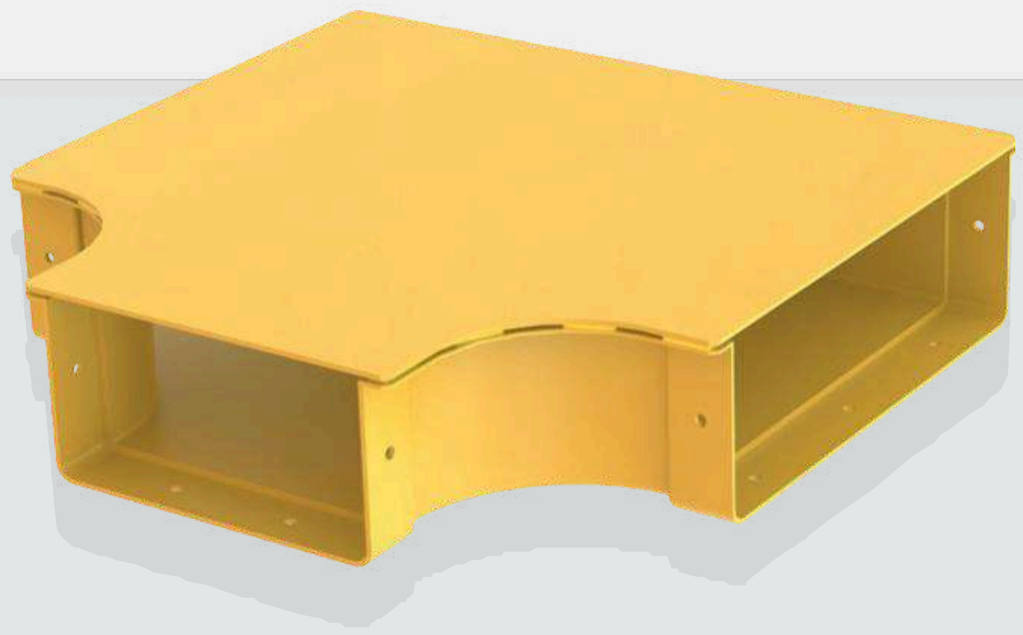
Connecting Continents

Anadvantageousshippinglocation,attheintersectionofAsia, EuropeandtheMiddle-East.



Innovative Solutions

We are passionate about responding to customer demand and keeping pace withthe ever-evolving telecommunication andfiberoptictechnologies.



DATA CENTER RACEWAY STRUCTURES

Fiber Raceway Systems

UPCOM's fiber optic cabling raceway system is a fully enclosed ducting system that segregates, routes, and protects fiber optic cables and jumpers from building entry point to fiber termination and distribution equipment. With the raceway system, fiber cables are easily traced and accessed through the convenient fully wrap-around, lay-in design of the raceway channels.

Straight channels and various curved fittings are specifically designed to prevent fibers from violating a 50mm minimum bending radius requirement, and they also protect fibers from snagging, crimping, and stress.

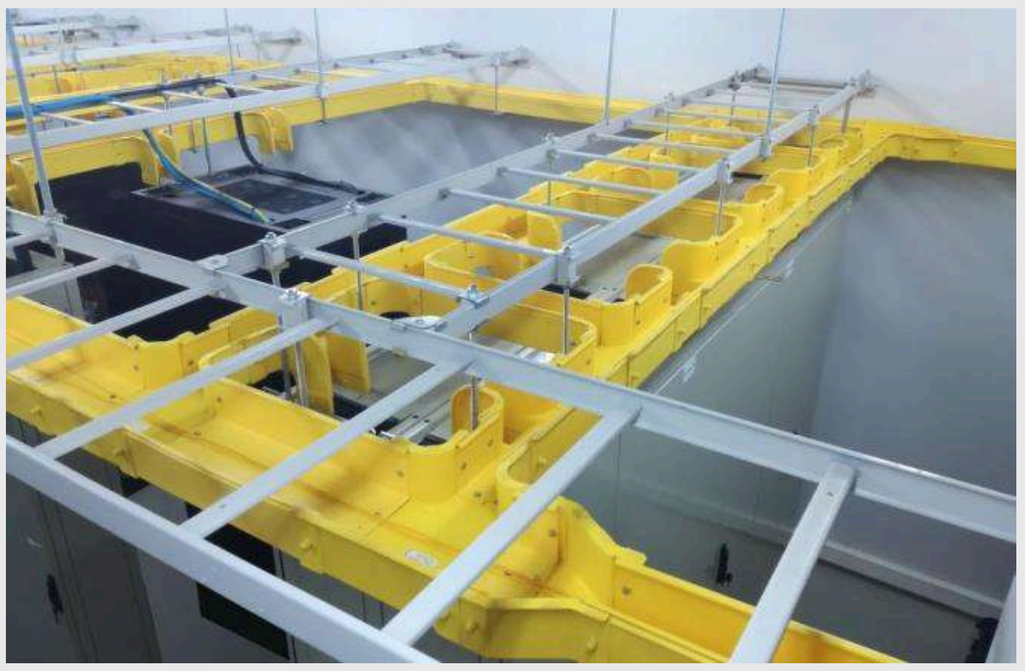
The raceway system's modular design and extensive mounting kit selection enable project engineers to meet cable capacity requirements and future expansion needs using existing superstructure or cable and equipment racking.

The flexibility and simplicity of the UPCOM's raceway system ensures cost-effective installations for new or existing cable routes in Central Offices, CEVs, Head-ends,

Remote Offices, Data Centers, and Wiring Closets.

TechnicalFeatures

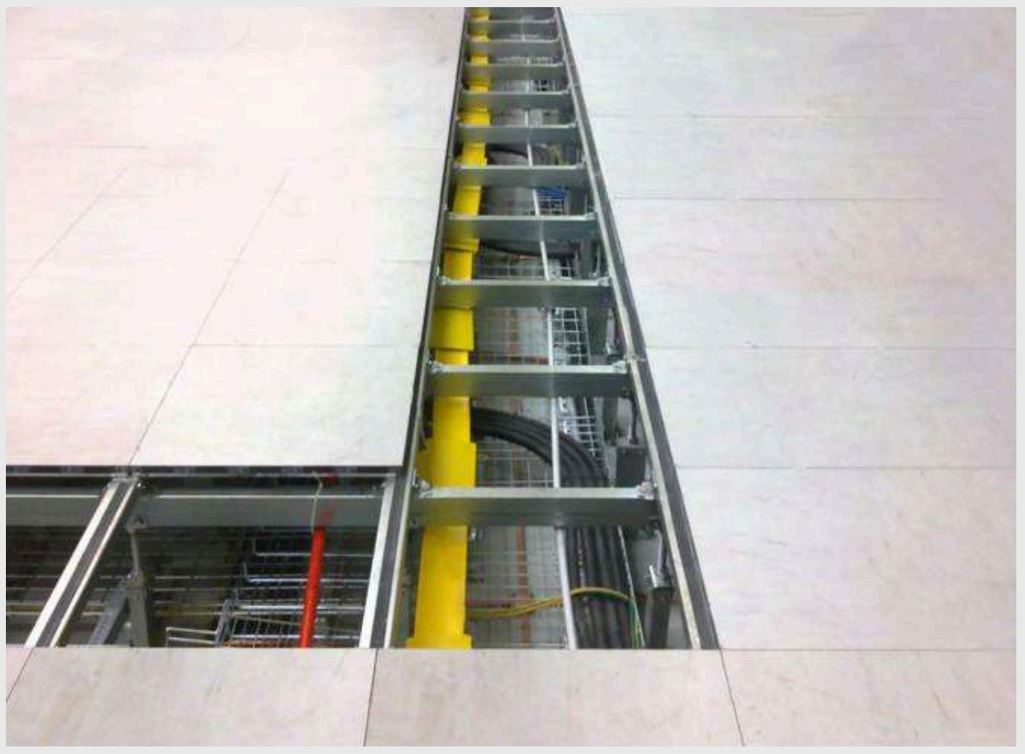
- Allexposedsurfacesaretextured
- High impact thermoplastic robust design, PC/ABS blend
- Flammability rating ofV-0accordingto UL94
- Hardware-freecoverson all components
- Halogen-free (RoHS compliant)
- Robust and strong product design
- Versatile mounting kits
- Internal cable retainers





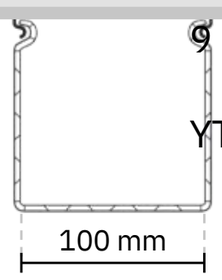


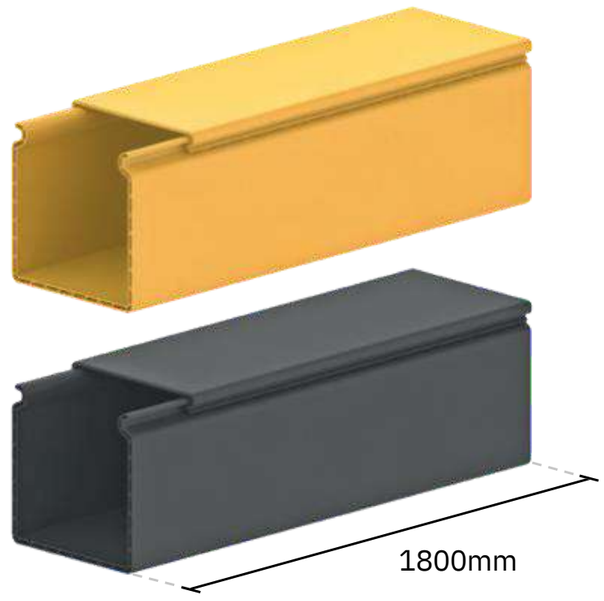




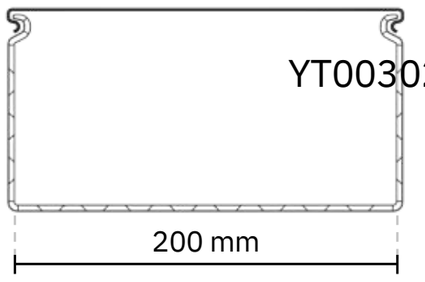
Straight Raceway Channels

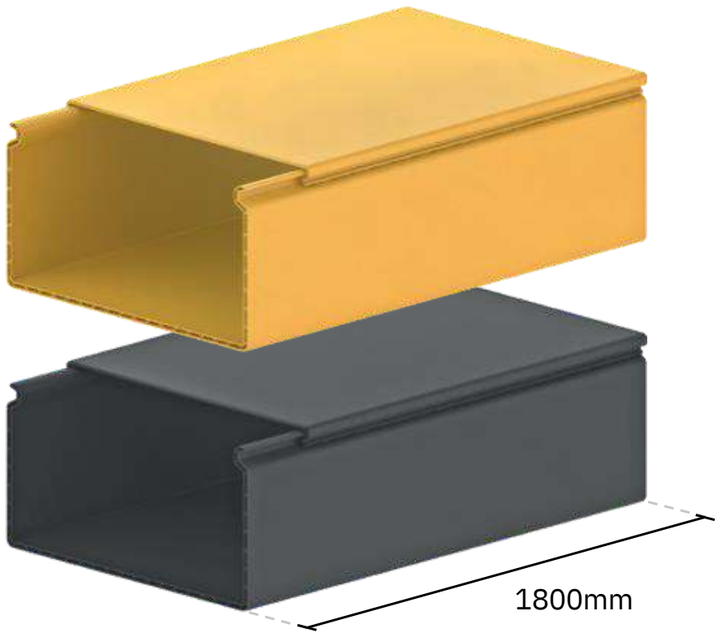
Description	Orde Code r	
	Yellow	Black
100mm_SolidChannel, W/OCover	HT0034	HT0249
100mm_Solid Channel Cover	8	0
100mm_SolidChannel, W/Cover	HT0034	HT0249
	9	1
	YT00252	YT01448



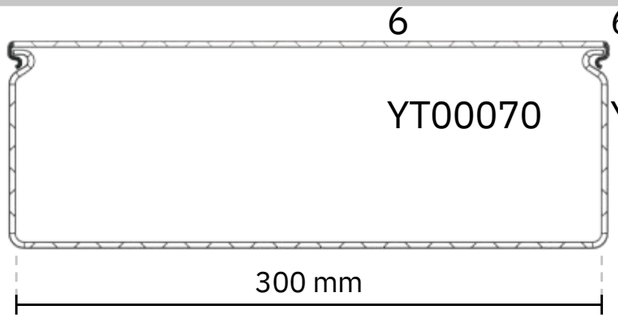


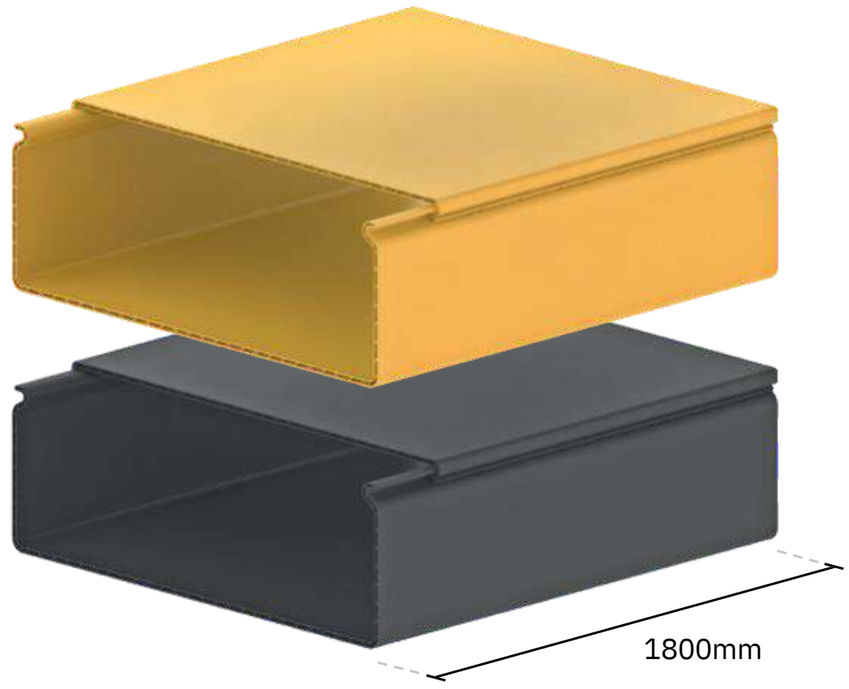
200mm_Solid Channel, W/O Cover	HT0043	HT0223
200mm_SolidChannel Cover	7	3
200mm_Solid Channel, W/ Cover	HT0043	HT0223
	8	4
	YT00302	YT01314





300mm_SolidChannel, W/OCover	HT0043	HT0222
300mm_Solid Channel Cover	5	5
300mm_SolidChannel, W/Cover	HT0043	HT0222
	6	6
	YT00070	YT01309





Usable Filling Capacities

Cable Duct Duct Duct Diametermm		100x100	100x200	100x300	Tube 50 D.	Tube 100 D.
1.7	960	1920	2880		-	-
Recommended	2 721	1443	2164		-	-
2.4	500	1000	1500		-	-
3	320	640	960		-	-
1.7	1728	3456	5184		250	500
Maximum	2 1298	2597	3895		208	415
2.4	905	1810	2715		144	288
3	580	1160	1740		100	200

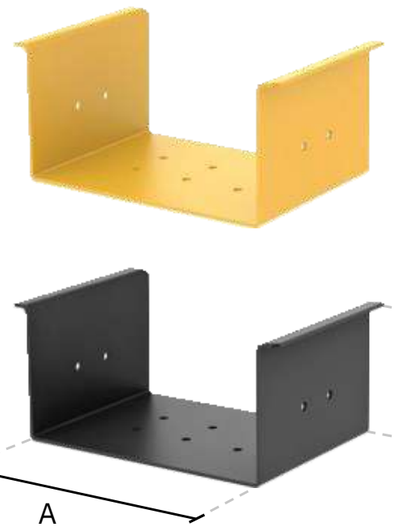
Recommended numbersareaccordingtoTelcordia449(maximum 50 mm pile height)

Raceway Assemblies

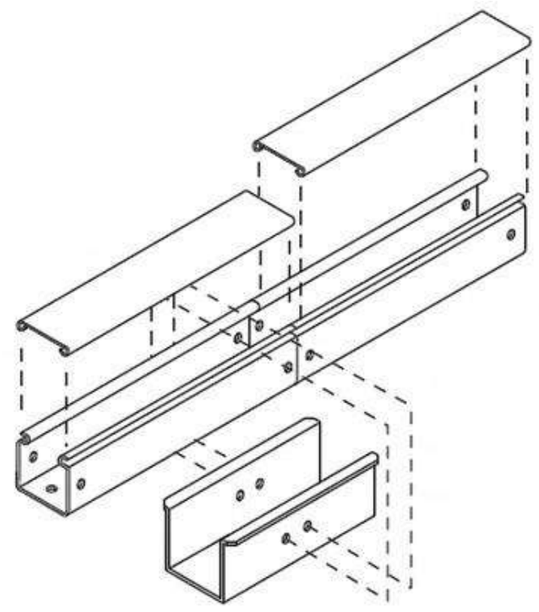
Channel to Channel Assembly

To assemble straight raceway sections that are longer than 1.8 meters (the length of one straight channel), individual straight channels can be joined together using a channel splice fitting. Just position the end of each channel half way into the channel fitting, making them meet in the middle. Then, drill the channels though the splice fitting holes and fasten both sides using M6 mushroom head bolts and nuts.

Description	Order Code	
	Yellow	Black
100mm_Solid Channel Fitting	YT00249	YT01686
200mm_Solid Channel Fitting	YT00299	YT01315
300mm_Solid Channel Fitting	YT00251	YT01310



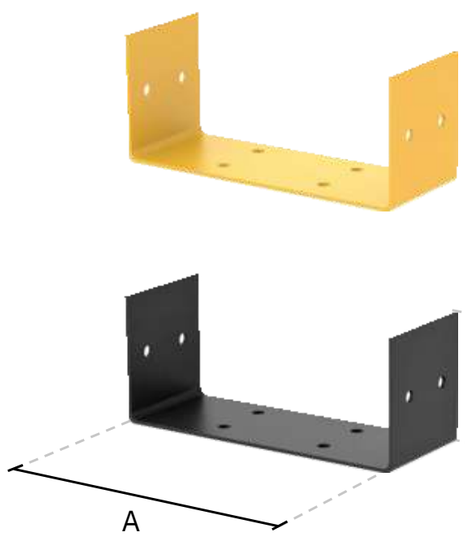
A
100 mm
200 mm
300 mm



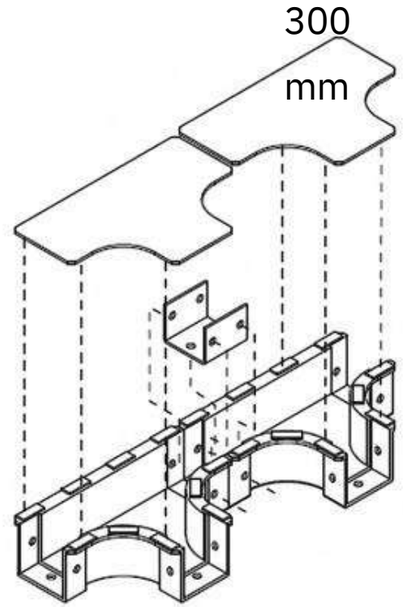
Fitting to Fitting Assembly

To assemble two curved fittings together easily, a special splice fitting is designed to fit within the female receptacle part on each curved fitting. Simply place the splice fitting into the curved fitting's receptacle. Using M6 mushroom head bolts and nuts, attach the two components together, then position the second curved fitting over the splice fitting and fasten it in the same way.

Description	Order Code	
	Yellow	Black
100mm_Accessory Fitting	YT00127	YT01687
200mm_Accessory Fitting	YT00075	YT01688
300mm_Accessory Fitting	YT00254	YT01689

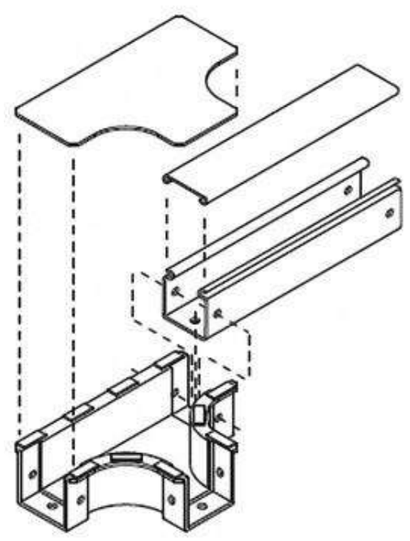


A
100 mm
200 mm
300 mm



Fitting to Channel Assembly

All fittings are designed with female receptacles at their outlets. These receptacles are dimensionally designed to accept straight channels without the use of additional parts or junction kits. This helps to reduce the total number of parts required for typical installations. Fewer parts to install translates into reduced material costs and assembly time. To install a fitting to the end of a straight channel, simply slip the channel into the receptacle of the fitting, and fasten the two components using M6 mushroom head bolts and nuts. When complete, the channel cover fits under the fitting cover, eliminating any gaps.

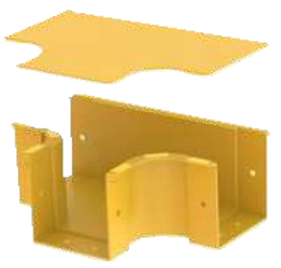


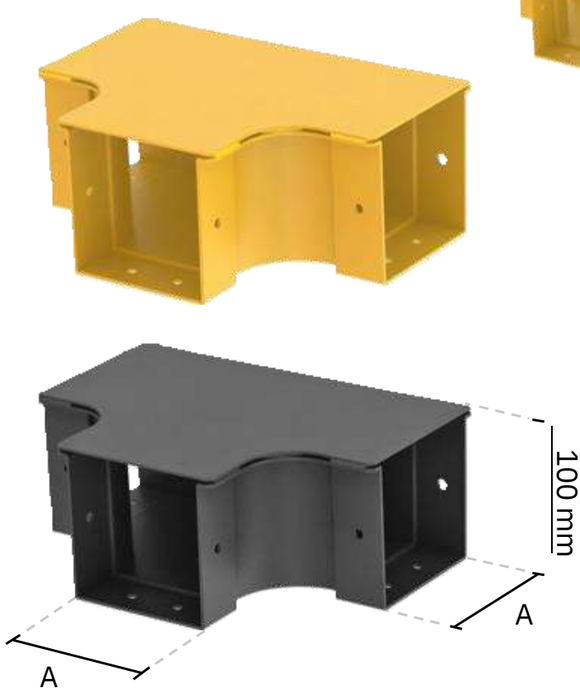
No Accessory Fitting Required!

Raceway Fittings

Horizontal “T” Connections

Description	Orde Code r	
	Yellow	Black
100mm_Horizontal "T"Connection,W/O Cover	HT0033	HT02878
100mm_Horizontal "T"ConnectionCover	4	HT0287
100mm_Horizontal "T"Connection,W/Cover	HT0033	9
200mm_Horizontal "T"Connection,W/O Cover	5	YT01690
200mm_Horizontal "T"ConnectionCover	YT00241	HT0275
200mm_Horizontal "T"Connection,W/Cover	HT0062	7
300mm_Horizontal "T"Connection,W/O Cover	2	HT0275
300mm_Horizontal "T"ConnectionCover	HT00371	8
300mm_Horizontal "T"Connection,W/Cover	HT0062	YT01618
	3	HT0222
	2	9
	YT00304	HT0223
	YT00086	0
		YT01312

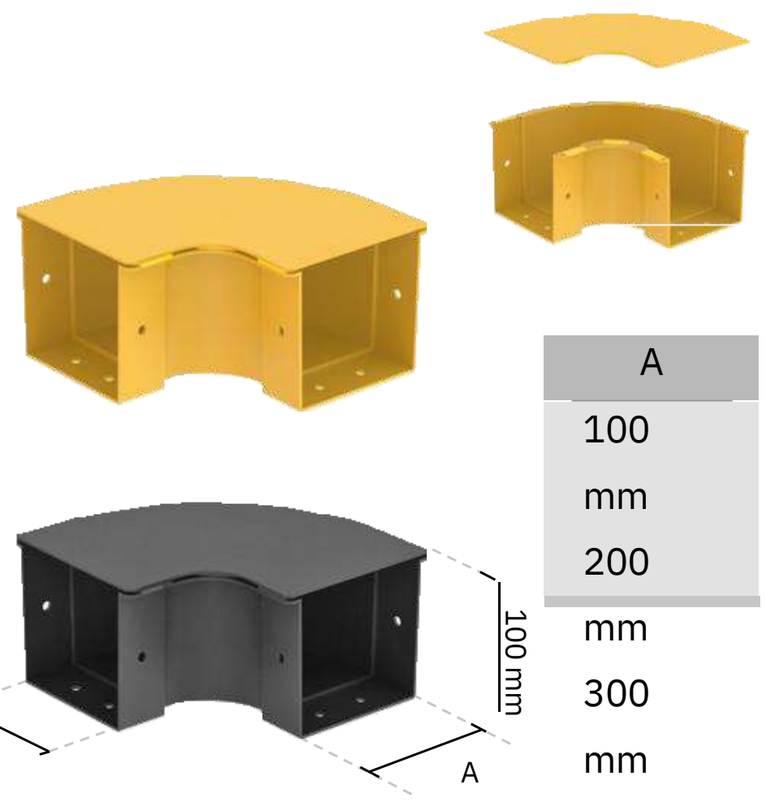




A
100 mm
200 mm
300 mm

90° Horizontal Elbows

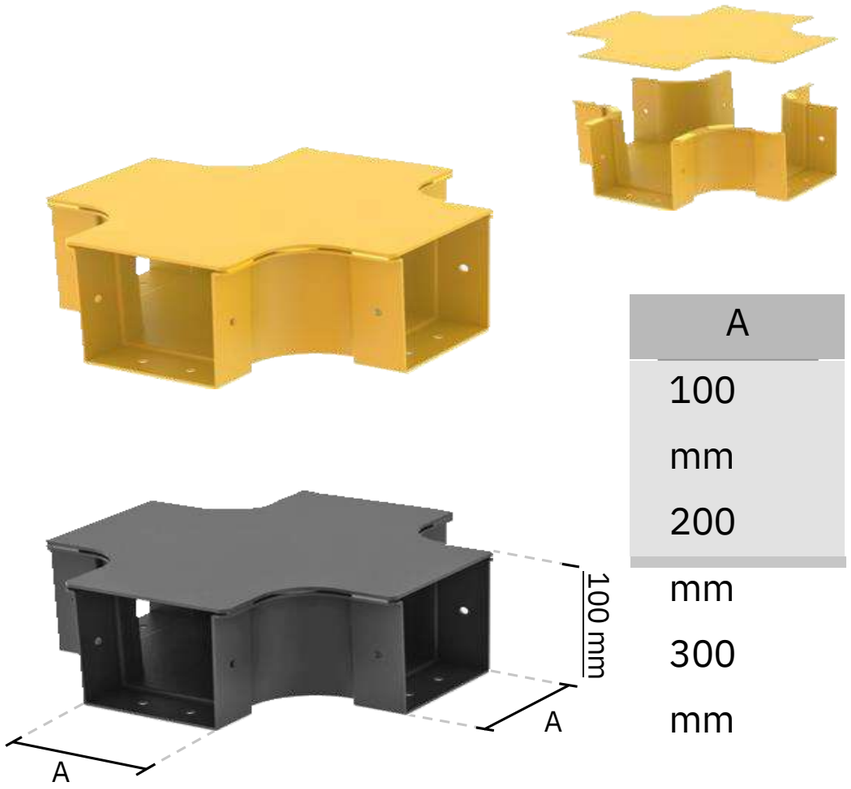
Description	Orde Code r	
	Yellow	Black
100mm_HorizontalElbow, W/OCover	HT0033	HT02880
100mm_Horizontal Elbow Cover	7	HT0288
100mm_Horizontal Elbow, W/ Cover	HT0033	1
200mm_HorizontalElbow, W/OCover	6	YT01691
200mm_Horizontal Elbow Cover	YT00242	HT0275
200mm_Horizontal Elbow, W/ Cover	HT0062	9
300mm_HorizontalElbow, W/OCover	4	YT01619
300mm_Horizontal Elbow Cover	YT00303	HT0276
300mm_Horizontal Elbow, W/ Cover	HT0036	HT0222
	2	0
	HT0062	7
	5	HT0222
	HT0036	8
	1	YT01311
	YT00256	



A
100 mm
200 mm
300 mm

4-Way Cross Connections

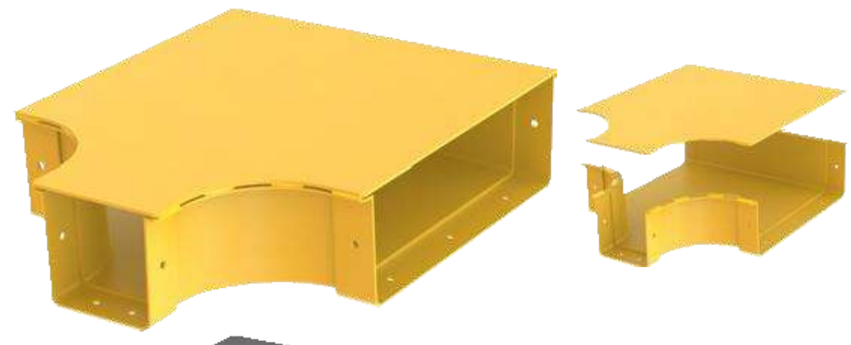
Description	Orde Code r	
	Yellow	Black
100mm_4WayCrossConnection,W/O Cover	HT00344	HT02882
100mm_4 WayCrossConnectionCover	HT00345	HT02883
100mm_4 WayCrossConnection,W/Cover	YT00246	YT01692
200mm_4WayCrossConnection,W/O Cover	HT0065	HT0276
200mm_4 WayCrossConnectionCover	6	1
200mm_4 WayCrossConnection,W/Cover	HT0065	HT0276
300mm_4WayCrossConnection,W/O Cover	7	2
300mm_4 WayCrossConnectionCover	YT00309	YT01620
300mm_4 WayCrossConnection,W/Cover	HT0039	HT0276
	6	3
	HT0039	HT0276
	7	4
	YT00227	YT01621

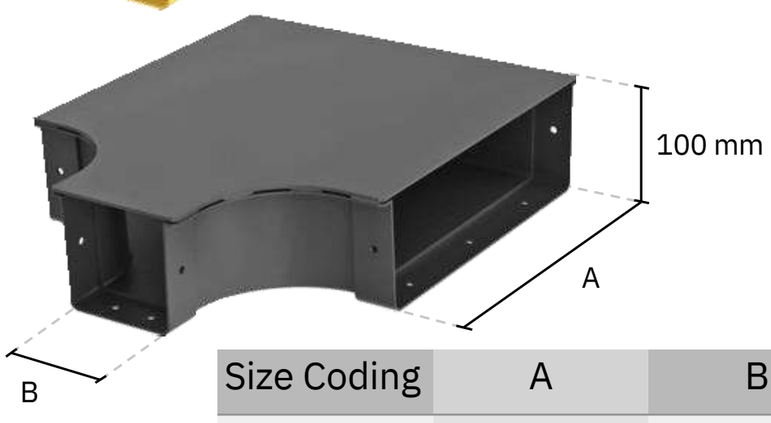


A
100 mm
200 mm
300 mm

Horizontal "T" Reducers

Description	Orde Code r	
	Yellow	Black
3010_Horizontal “T” Reducer, W/O Cover	HT0034	HT02884
3010_Horizontal “T” Reducer Cover	6	HT0288
3010_Horizontal “T” Reducer, W/ Cover	HT0034	5
3020_Horizontal “T” Reducer, W/O Cover	7	YT01693
3020_Horizontal “T” Reducer Cover	YT00247	HT0288
3020_Horizontal “T” Reducer, W/ Cover	HT0064	6 YT01694
2010_Horizontal “T” Reducer, W/O Cover	5 YT00313	HT0288
2010_Horizontal “T” Reducer Cover	HT0064	HT0288
2010_Horizontal “T” Reducer, W/ Cover	7 HT0064	8 HT0288
	6	9
	8	
	YT00312	YT01695

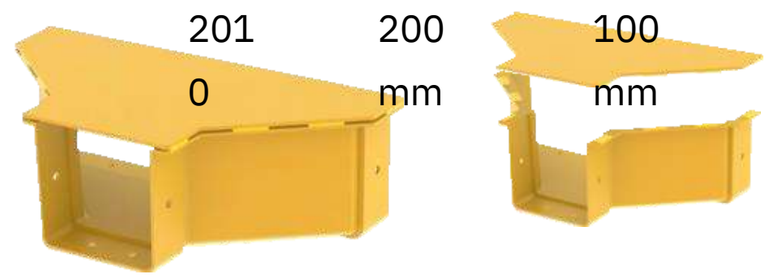


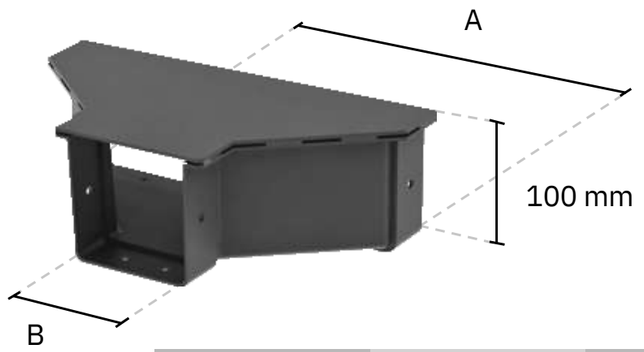


Size Coding	A	B
3010	300 mm	100 mm
3020	300 mm	200 mm
2010	200 mm	100 mm

Horizontal Line Reducers

Description	Orde Code r	
	Yellow	Bl ack
3010_HorizontalReducer,W/O Cover	HT0036	HT0289
3010_Horizontal ReducerCover	6	0
3010_Horizontal Reducer,W/Cover	HT0036	HT0289
3020_HorizontalReducer,W/O Cover	5	1
3020_Horizontal ReducerCover	YT00257	YT01696
3020_Horizontal Reducer,W/Cover	HT0066	HT0223
2010_HorizontalReducer,W/O Cover	0	1
2010_Horizontal ReducerCover	HT0066	HT0223
2010_Horizontal Reducer,W/Cover	1	2 YT01697
	YT00073	YT01313
	HT0066	HT0289
	2	2
	HT0066	HT0289
	3	3
	YT00314	

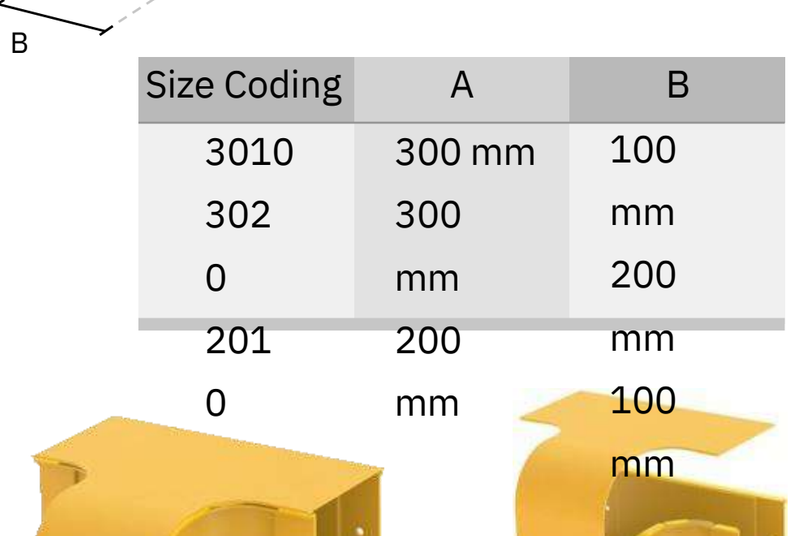




Size Coding	A	B
3010	300 mm	100 mm
3020	300 mm	200 mm
2010	200 mm	100 mm

Vertical Offset Drops | 100 mm

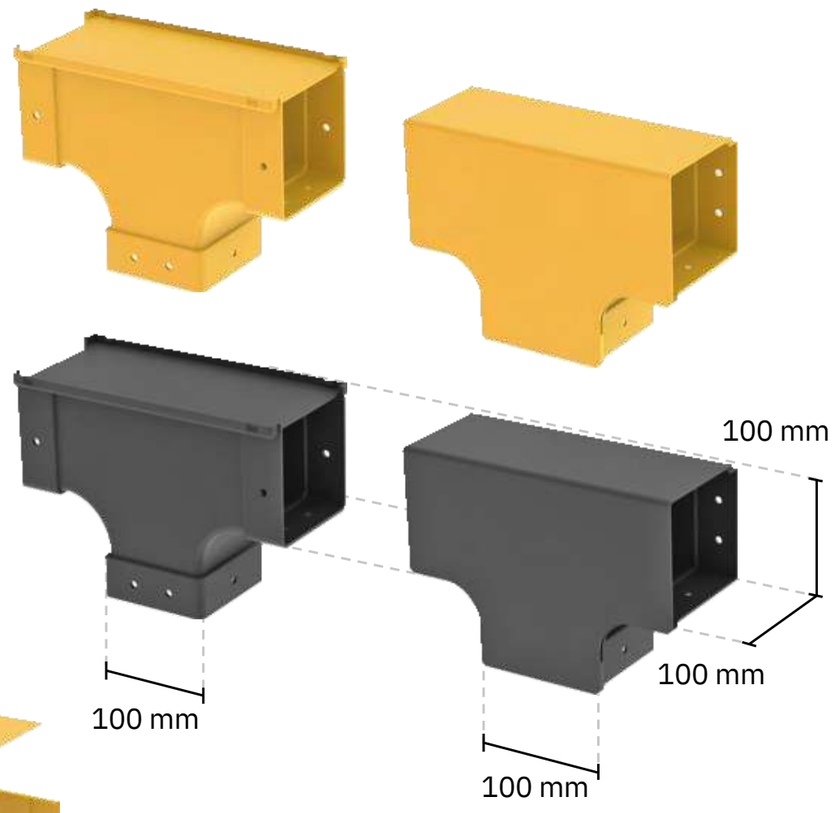
Description	Orde Code r	
	Yellow	Black
1010_Vertical Offset Drop, W/O Cover	HT0063	HT0289
1010_Vertical OffsetDropCover	7	4
1010_Vertical Offset Drop, W/ Cover	HT0063	HT0289
1020_Vertical Offset Drop, W/O Cover	8	5
1020_Vertical OffsetDropCover	YT00298	YT01698
1020_Vertical Offset Drop, W/ Cover	HT0064	HT0289
	0	6
	HT0063	HT0289
	9	7
	YT00563	YT01699



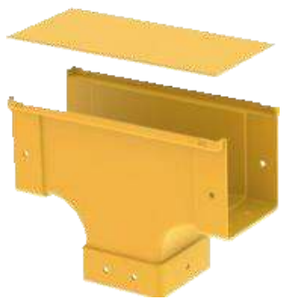
Size Coding	A
1010	100 mm
1020	200 mm

Vertical Line Drops | 100 mm

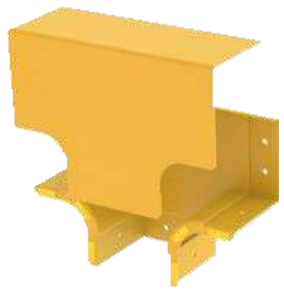
Description	Order Code	
	Yellow	Bl ack
100mm_Top Side Open Vertical Drop, W/O Cover	HT0075	HT0289
100mm_Top Side Open Vertical Drop Cover	3	8
100mm_TopSideOpenVerticalDrop,W/ Cover	HT0075	HT0289
100mm_One Side Open Vertical Drop, W/O Cover	4	9
100mm_One Side Open Vertical Drop Cover	YT00734 HT00343	YT01700 HT02901
100mm_One Side Open Vertical Drop, W/ Cover	YT00245 2	YT01701 0



Top Side Open



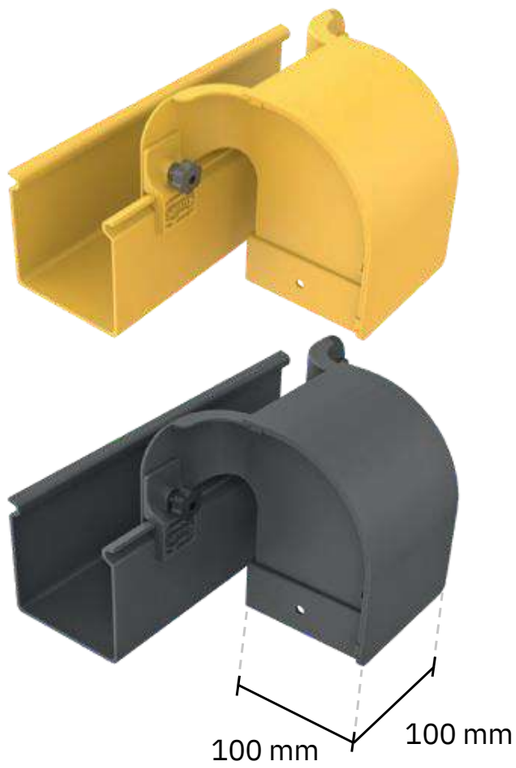
One Side Open



Quick Drop | 100 mm

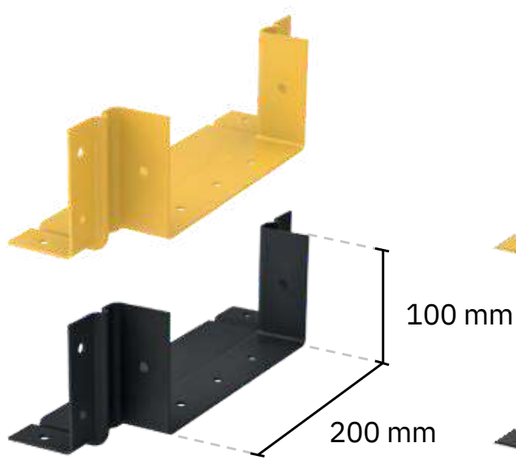
Description	Order Code	
	Yellow	Black
1010_Vertical Quick Drop W/ Cover	YT01173	YT01306

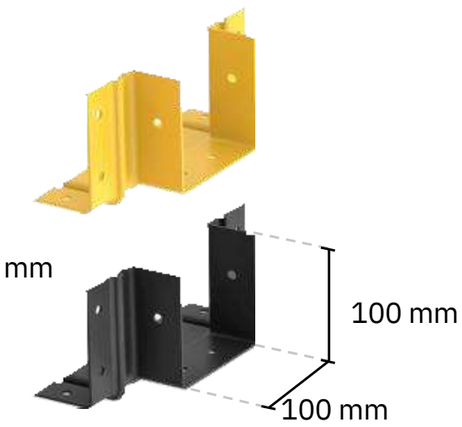




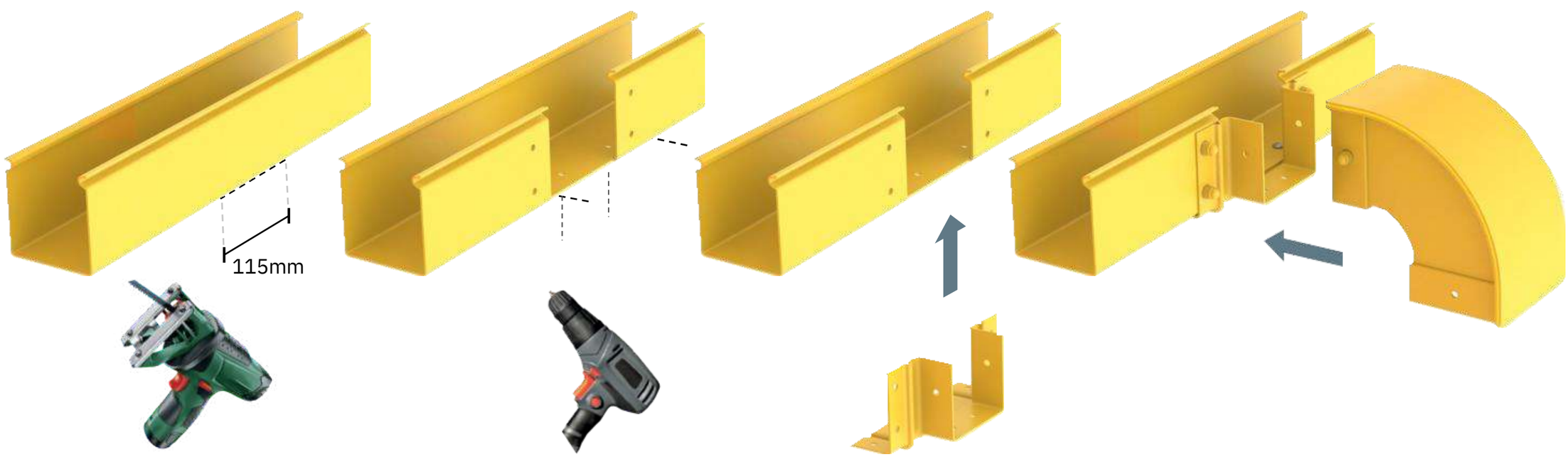
Cut-off Drop Connection

Description Description Code	Orde Code r Order Yellow	Black
100mm_Cut-off Drop Connection	YT00286	YT01702
200mm_Cut-off Drop Connection	YT01321	YT01703



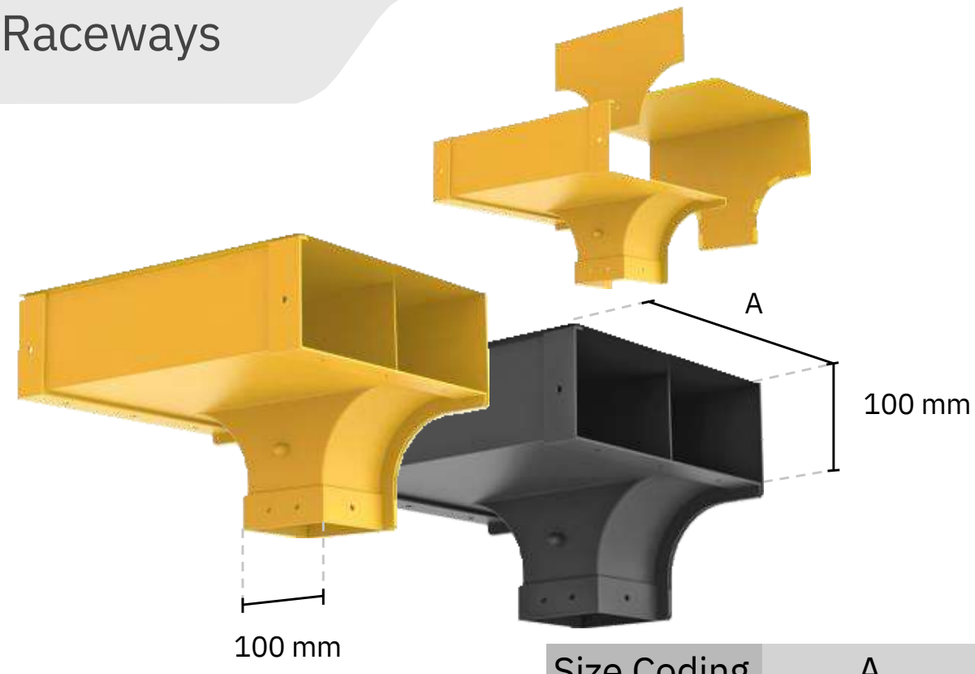


1. Cutopenthechannelas shown below.
2. Drill screw holes at the proper screw points.
3. Mount the Connection and screw itproperly.
4. Installthecompatibledrop outlet.



Vertical Line Drops

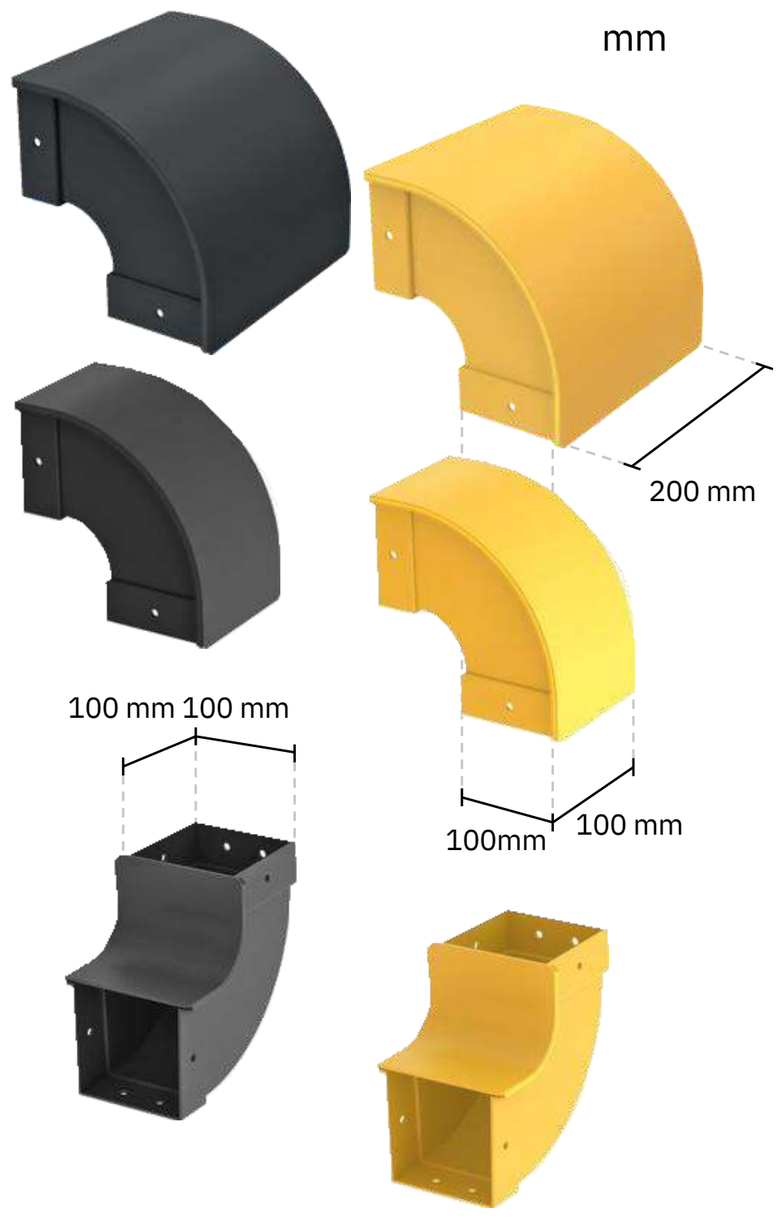
Description	Orde Code r	
	Yellow	Black
2010_Vertical Line Drop, W/O Cover	HT0064	HT02902
2010_Vertical LineDrop Cover	2	HT0290
2010_Vertical Line Drop,W/Cover	HT0064	3
3010_Vertical Line Drop, W/O Cover	1	YT01704
3010_Vertical LineDrop Cover	YT00310	HT0290
3010_Vertical Line Drop,W/Cover	HT0035 YT00255 9	4 YT01705 HT0290
	HT0036 0	5



Size Coding	A
2010	200 mm
3010	300 mm

90° Inside/Outside Open Vertical Elbows

Description	Orde Code r	
	Yellow	Bl ack
100mm_InsideOpen VerticalElbow, W/OCover	HT0033	HT0290
100mm_Inside Open Vertical Elbow Cover	8	6
100mm_InsideOpen VerticalElbow,W/Cover	HT0033	HT0290
100mm_Outside Open VerticalElbow, W/OCover	9	7
100mm_OutsideOpen VerticalElbowCover	YT00243	YT01706
100mm_OutsideOpen VerticalElbow, W/Cover	HT0034	HT0290
200mm_Outside Open VerticalElbow, W/OCover	1	8
200mm_OutsideOpen VerticalElbowCover	HT0034 0	HT0290 9
200mm_OutsideOpen VerticalElbow, W/Cover	YT01320	YT01707
	YT00244	HT0286
	HT0230 1	0
	HT0230 2	HT0286 1
		YT01676



Inside Open





Outside Open

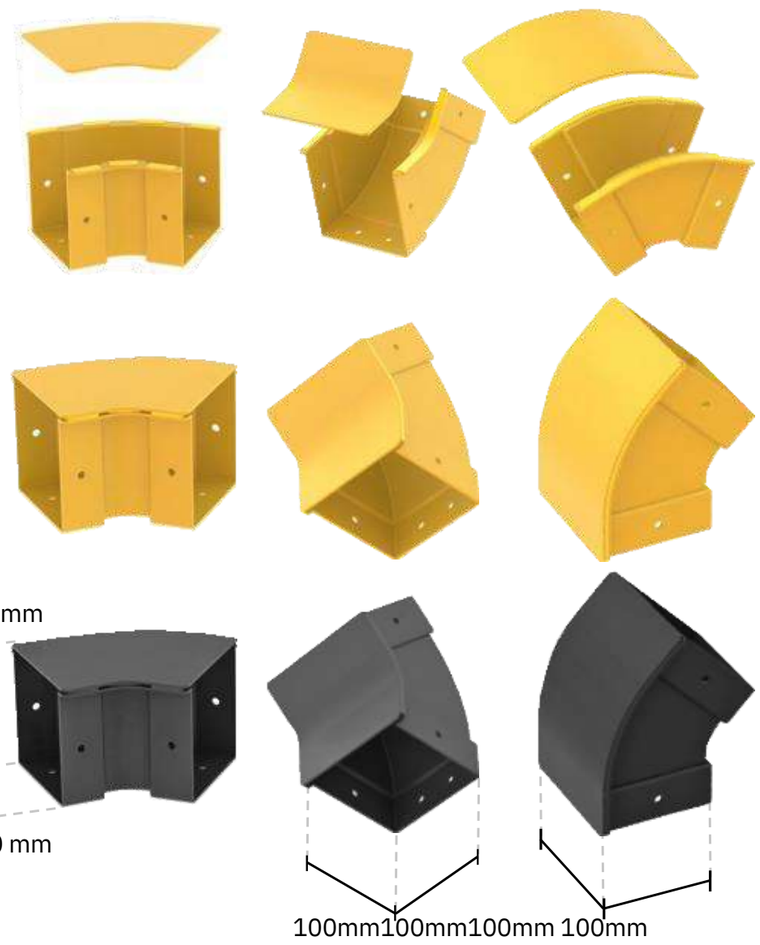
45° Horizontal/Vertical Elbows

Description	Orde Code r	
	Yellow	Black
100mm_Horizontal Elbow 45°, W/O Cover	HT00649	HT02910
100mm_ Horizontal Elbow 45° Cover	HT00650	HT02911
100mm_Horizontal Elbow 45°, W/ Cover	YT00123	YT01708
100mm_Outside Open VerticalElbow45°, W/OCover	HT0065	HT0291
100mm_OutsideOpen VerticalElbow45°Cover	1	2
100mm_OutsideOpen VerticalElbow45°, W/Cover	HT0065	HT0291
100mm_Inside Open VerticalElbow 45°, W/OCover	2 HT00653	3 HT02914
100mm_InsideOpen Vertical Elbow45°Cover	YT00565 HT0065	YT01709 HT0291
100mm_Inside Open VerticalElbow45°, W/Cover	4 YT00564	5 YT01710

Hor i zont al

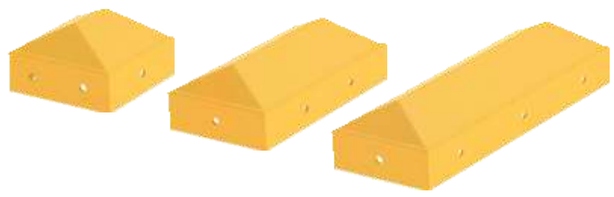
Inside Open

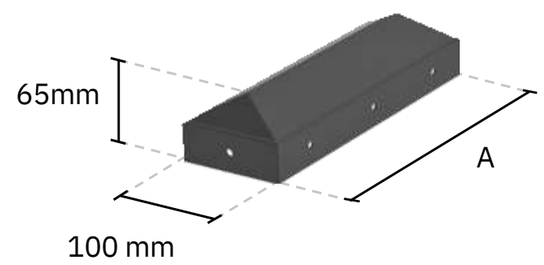
Outside Open



Channel End Caps

Description	Orde Code r	
	Yellow	Black
100mm_Channel End Cap	YT00248	YT01711
200mm_Channel End Cap	YT00341	YT01712
300mm_Channel End Cap	YT00091	YT01713



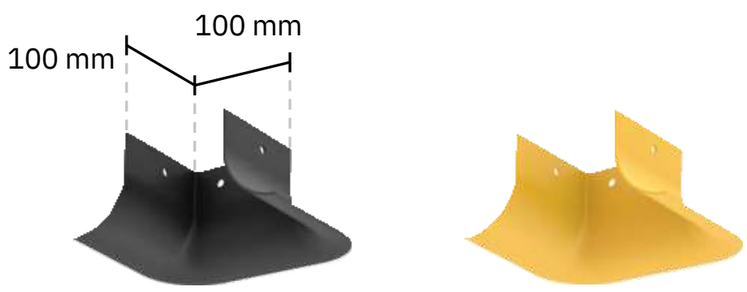


A
100 mm
200 mm
300 mm

Accessory Outlets

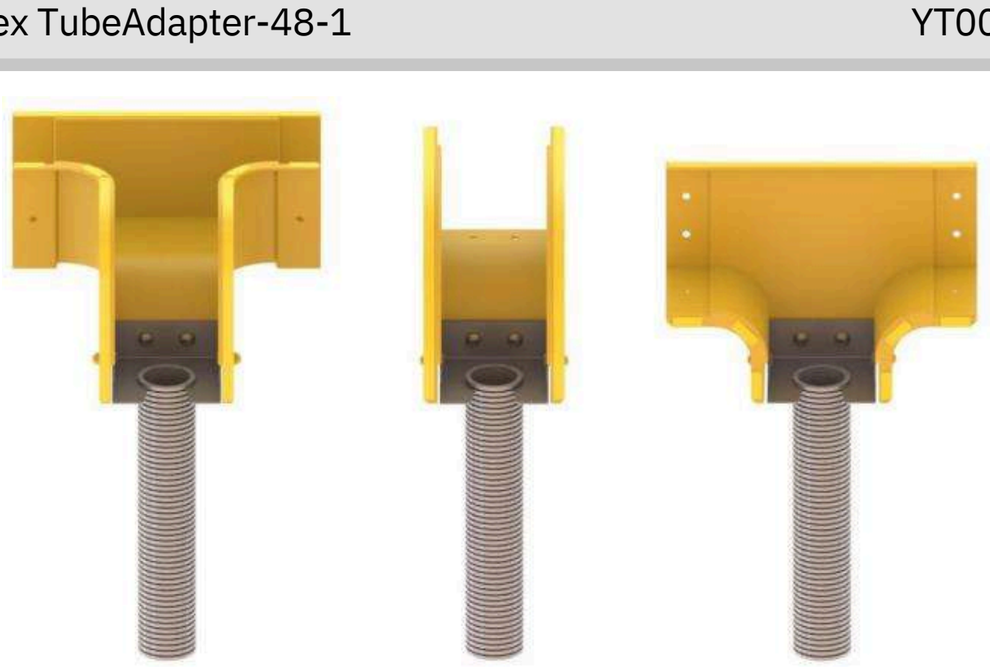
Description	Order Code	
	Yellow	Black
100mm_Bend Radius Outlet Trumpet	YT00250	YT01714

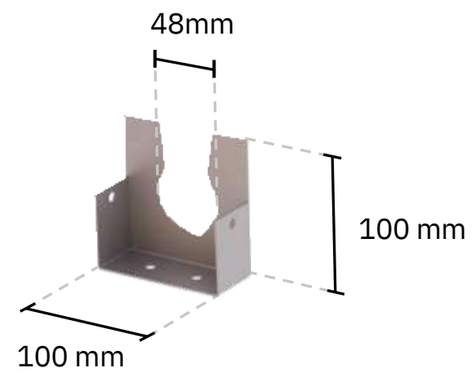




Compatible with all 100 mm drop outlets

Description	Order Code
Flex TubeAdapter-48-1	YT00320





Compatible with all 100 mm drop outlets

Flex Tubes

Description	Order Code	
	Yellow	Black
Single Wall Slitted Flex Tube-48	YT00644	YT01622



Surface Hanging Supports - I Profiles

Description	Order Code
100mm_I11 Threaded Rod Hanging Support	YT00061
200mm_ 12 Threaded Rod Hanging	YT0031
I Support 13 Threaded Rod	5
300mm_ Hanging Support	YT0031



For one side hanging M14 or M16 rod sizes are recommended
FortwosideshangingM12orM14rod sizesarerecommended

I InstallationOptions 6

Underfloor Hanging



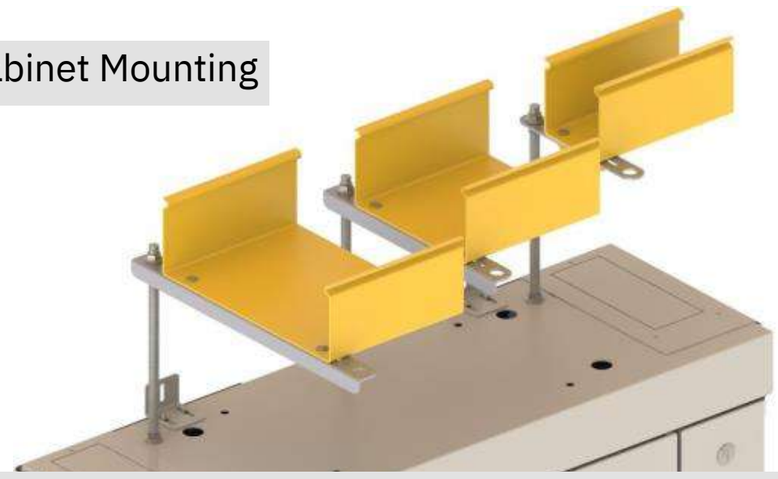
Ceiling Hanging



Ladder Mounting



Over Cabinet Mounting



Ladder Hanging Supports - L Profiles

Description	Order Code
100mm_L11Cable LadderConnectionSet	YT00645
200mm_L12Cable LadderConnectionSet	YT0064
300mm_L13Cable LadderConnectionSet	6
	YT0064
	7



InstallationOptions

Suppliedwith M8boltandnutset





Surface Hanging Supports - U Profiles

Description	Order Code
100mm_U11ThreadedRodHanging Support	HT0009
200mm_U12ThreadedRodHanging Support	6
300mm_U13ThreadedRodHanging Support	HT0051
	4
InstallationOptions	HT0051



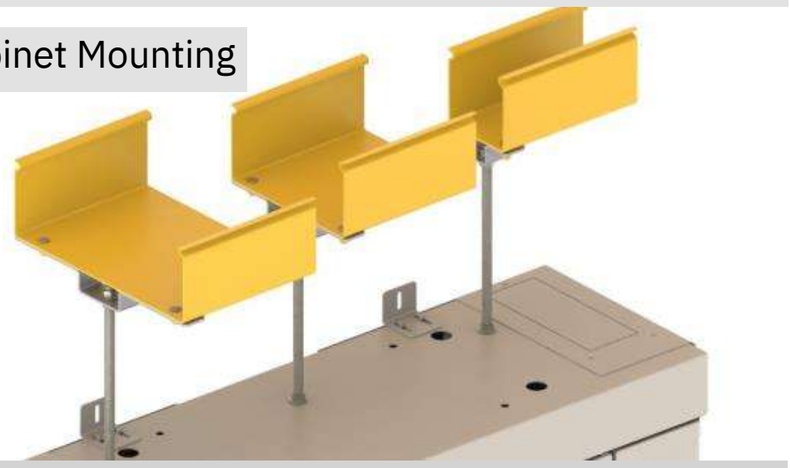
M14orM16rod sizes are recommended

5

Underfloor Hanging

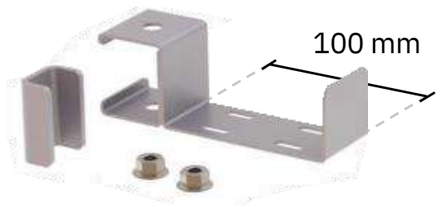


Over Cabinet Mounting



Hanging Supports - C Profiles

Description	Order Code
100mm_C11 Threaded Rod Hanging Support	YT01011



InstallationOptions

M10orM12rod sizes are recommended

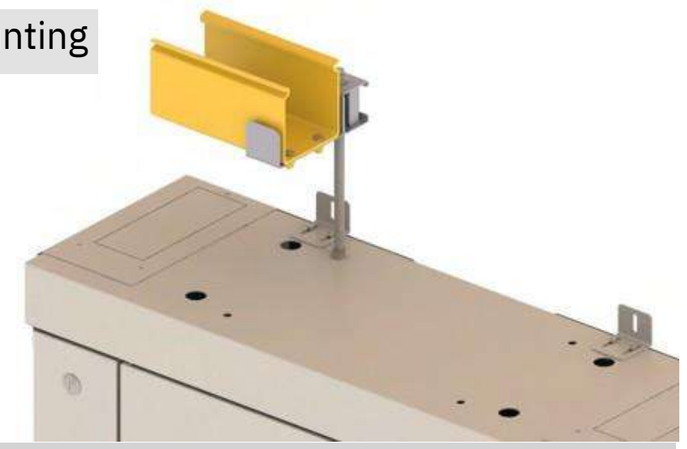
Ladder Mounting



Underfloor Hanging

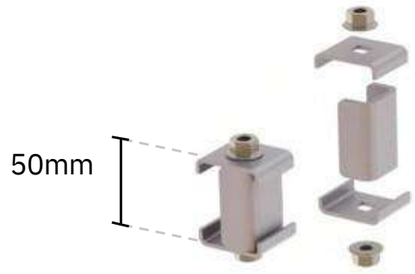


Over Cabinet Mounting



Ladder Mounting Clamp

Description	Order Code
50mm_LC1 Ladder Clamp Set	YT01012



InstallationOptions

M10orM12rod sizes are recommended



Upward Mounting

Downward Mounting

Raceway Fastening Components

Description	Order Code	
	Yellow	Bl ack
Bolt+Nut+Cap Set	YT00259	YT01317



Galvanized Steel Rods and Nuts

Description	Order Code
M10 Threaded Rod, Galvanized-1M	HT00350
M12 Threaded Rod, Galvanized-1M	HT01215
M14 Threaded Rod, Galvanized-1M	HT01216
M16 Threaded Rod, Galvanized-1M	HT01217



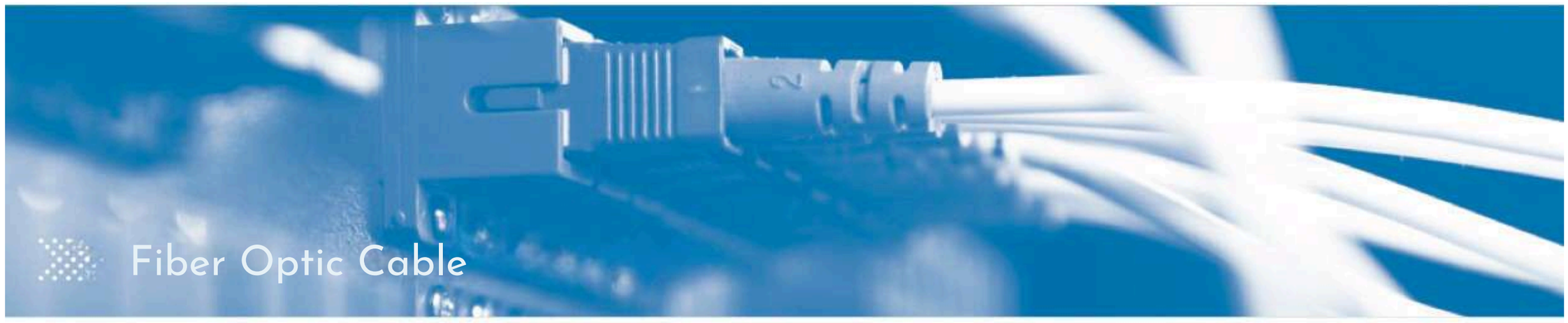
Description	Order Code
DIN 6923 M10 Flanged Nut, Galvanized	HT00890
DIN 6923 M12 Flanged Nut, Galvanized	HT01218
DIN 6923 M14 Flanged Nut, Galvanized	HT01219
DIN 6923 M16 Flanged Nut, Galvanized	HT01220



UPCOM

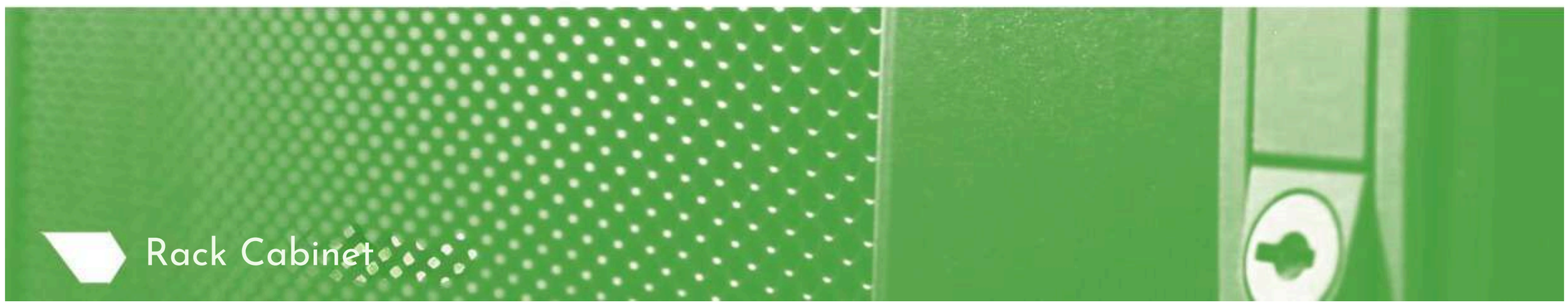
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