

Vandapower has been THE one-stop shop and expert in battery components for 20 years. We provide convenience to our customers worldwide and want to deliver the best possible service.

Take a look at our [website](#) for more products and don't hesitate to [contact us](#) if you have any questions.

We at Vandapower are ready to serve you, are you ready to be served?

Frötek Intercell Connectors and Take-off Leads





The name FRÖTEK stands for a competent partner with many years of experience in the global battery market.

FRÖTEK designs and produces a range of products for the assembly of industrial batteries from individual battery cells.

Furthermore they have products for starter batteries and for cell formation.

Frötek intercell connectors and take-off leads

- Vandapower has a wide range of Frötek inter-cell connectors: welded technique connectors (in standard and Perfect Hawker type), crimped connectors, charging connectors, ...
- Also available in take-off leads (end-terminals).
- Vandapower provides a wide range of screws and caps.
- We can also deliver the cables as complete cable assemblies with multipole or single pole connectors and any other accessory you need.



Terminal cables “flex”

Terminal connectors “flex”



Terminal cables “Perfect”

Terminal connectors “Perfect”



Rigid connectors

Screws and accessories



Charger cables

Terminal cable “Flex”

TERMINAL CABLE “FLEX” – STANDARD VERSIONS



Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FES25-300	25	300	100
FES25-500	25	500	70
FES25-1000	25	1000	40
FES25-1200	25	1200	40
FES25-1500	25	1500	30
FES25-2000	25	2000	20
...
FES35-300	35	300	100
FES35-500	35	500	70
FES35-1000	35	1000	40
FES35-1200	35	1200	40
FES35-1500	35	1500	30
FES35-1600	35	1600	20
FES35-2000	35	2000	20
FES35-2500	35	2500	16
FES35-3000	35	3000	16
FES35-3500	35	3500	10
...
FES50-300	50	300	100
FES50-500	50	500	50
FES50-1000	50	1000	30
FES50-1200	50	1200	26
FES50-1500	50	1500	26
FES50-1600	50	1600	26
FES50-2000	50	2000	16
FES50-2500	50	2500	10
FES50-3000	50	3000	6
FES50-3200	50	3200	6
FES50-4000	50	4000	6
FES50-5000	50	5000	6

...
FES70-300	70	300	80
FES70-500	70	500	50
FES70-1000	70	1000	20
FES70-1200	70	1200	16
FES70-1500	70	1500	16
FES70-2000	70	2000	10
FES70-2500	70	2500	8
FES70-3000	70	3000	6
FES70-4000	70	4000	6
FES70-5000	70	5000	6
FES70-7000	70	7000	2
...
FES95-1000	95	1000	15
FES95-1200	95	1200	15
FES95-1500	95	1500	10
FES95-1600	95	1600	10
FES95-2000	95	2000	6
FES95-2500	95	2500	6
FES95-3000	95	3000	6
...

-Standard connection = M10

-Connection: welded technique

TERMINAL CABLE "FLEX" – 120 mm²



For section 120 mm² the connection is executed with ferrule technique

Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FEH120-1000	120	1000	15
FEH120-1500	120	1500	10
FEH120-2000	120	2000	10
FEH120-3000	120	3000	8
FEH120-5000	120	5000	5
...

-Standard connection = M10

TERMINAL CABLE FLEX – OTHER VERSIONS*



Also available with M6 and M8 connections

For example: FES50-1500M8 = Terminal Cable Flex 50/1500 FES - M8

Also available in other lengths

For example: FES50-800 = Terminal Cable Flex 50 mm² - 800 mm

Also available in other sections: 10 / 16 / 107 mm²

For example: FES16-1000 = Terminal Cable Flex 16 mm² - 1000 mm

Can be provided with integrated fuse from 200 A up to 500A



For example: FES50-1000-FUS3 = Cable 50/1000 FES- fuse 300A

Maximum cable section with fuse is 70 mm²

Also available in UL94 V0 flammability rating

(V0: burning stops within 10 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed.)

*For these versions, please contact us

TERMINAL CABLE FLEX – “SUNLIGHT”



- Connector for Sunlight batteries, with slightly bigger inner diameter of the insulation (16,5 mm) to fit the terminal.

- Visual recognition: notch in the outside of the insulation.

Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FESU25-300	25	300	100
FESU25-500	25	500	70
FESU25-1000	25	1000	40
FESU25-1200	25	1200	40
FESU25-1500	25	1500	30
FESU25-2000	25	2000	20
...
FESU35-300	35	300	100
FESU35-500	35	500	70
FESU35-1000	35	1000	40
FESU35-1200	35	1200	40

FESU35-1500	35	1500	30
FESU35-1600	35	1600	20
FESU35-2000	35	2000	20
FESU35-2500	35	2500	16
FESU35-3000	35	3000	16
FESU35-3500	35	3500	10
...
FESU50-300	50	300	100
FESU50-500	50	500	50
FESU50-1000	50	1000	30
FESU50-1200	50	1200	26
FESU50-1500	50	1500	26
FESU50-1600	50	1600	26
FESU50-2000	50	2000	16
FESU50-2500	50	2500	10
FESU50-3000	50	3000	6
FESU50-3200	50	3200	6
FESU50-4000	50	4000	6
FESU50-5000	50	5000	6
...
FESU70-300	70	300	80
FESU70-500	70	500	50
FESU70-1000	70	1000	20
FESU70-1200	70	1200	16
FESU70-1500	70	1500	16
FESU70-2000	70	2000	10
FESU70-2500	70	2500	8
FESU70-3000	70	3000	6
FESU70-4000	70	4000	6
FESU70-5000	70	5000	6
FESU70-7000	70	7000	2
...
FESU95-1000	95	1000	15
FESU95-1200	95	1200	15
FESU95-1500	95	1500	10
FESU95-1600	95	1600	10
FESU95-2000	95	2000	6
FESU95-2500	95	2500	6
FESU95-3000	95	3000	6
...

- Standard connection = M10

- Also available in other lengths

Intercell Connectors “Flex”

INTER-CELL CONNECTORS “FLEX” – STANDARD VERSIONS



Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FVS25-075	25	75	300
FVS25-085	25	85	300
FVS25-095	25	95	300
FVS25-110	25	110	300
FVS25-130	25	130	250
FVS25-150	25	150	250
FVS25-170	25	170	200
FVS25-190	25	190	200
FVS25-210	25	210	150
FVS25-300	25	300	100
...
FVS35-075	35	75	300
FVS35-085	35	85	300
FVS35-095	35	95	300
FVS35-110	35	110	300
FVS35-130	35	130	250
FVS35-150	35	150	250
FVS35-170	35	170	200
FVS35-190	35	190	100
FVS35-210	35	210	100
FVS35-230	35	230	100
FVS35-250	35	250	100
FVS35-300	35	300	100
...
FVS50-075	50	75	250
FVS50-085	50	85	250
FVS50-095	50	95	250
FVS50-110	50	110	250
FVS50-130	50	130	200
FVS50-150	50	150	200

FVS50-170	50	170	150
FVS50-190	50	190	120
FVS50-210	50	210	120
FVS50-230	50	230	100
FVS50-250	50	250	100
FVS50-300	50	300	100
...
FVS70-095	70	95	200
FVS70-110	70	110	200
FVS70-130	70	130	150
FVS70-150	70	150	150
FVS70-170	70	170	120
FVS70-190	70	190	120
FVS70-210	70	210	120
FVS70-250	70	250	100
FVS70-300	70	300	80
...
FVS95-110	95	110	100
FVS95-130	95	130	76
FVS95-150	95	150	76
FVS95-170	95	170	60
FVS95-190	95	190	50
FVS95-210	95	210	50
FVS95-300	95	300	50
...

-Standard connection = M10

-Connection: welded technique

INTER-CELL CONNECTORS "FLEX" – 120 mm²



For section 120 mm² the connection is executed with ferrule technique

Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FVH120-110	120	110	100
FVH120-150	120	150	75
FVH120-170	120	170	75
FVH120-210	120	210	50
FVH120-250	120	250	50
FVH120-300	120	300	50
FVH120-450	120	450	40
...

-Standard connection = M10

FLEXIBLE CONNECTORS – OTHER VERSIONS*



Also available with M6 and M8 connections

For example: FVS70-300M8 = Connector FVS 70-300 - M8 (with M8 connection)

Also available in other lengths

For example: FVS25-1000 = Connector Flex 25 mm² - 1000 mm

Also available in other sections: 10 / 16 / 107 mm²

For example: FVS16-250 = Connector Flex 16 mm² - 250 mm

Can be provided with integrated fuse from 200 A up to 500A



For example: FVS35-350F3A = Connector 35/350 - Fuse 300 A

Maximum cable section with fuse is 70 mm²

Also available in UL94 V0 flammability rating

(V0: burning stops within 10 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed.)

*For these versions, please contact us

Terminal Cable “Perfect”

TERMINAL CABLE “PERFECT” – STANDARD VERSIONS



Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FESPH25-700	25	700	45
FESPH25-800	25	800	50
FESPH25-900	25	900	45
FESPH25-1000	25	1000	40
FESPH25-1200	25	1200	40
FESPH25-1400	25	1400	30
FESPH25-1500	25	1500	30
FESPH25-1800	25	1800	30
FESPH25-2200	25	2200	15
FESPH25-3000	25	3000	10
...
FESPH35-650	35	650	45
FESPH35-800	35	800	50
FESPH35-850	35	850	45
FESPH35-1000	35	1000	40
FESPH35-1250	35	1250	40
FESPH35-1400	35	1400	30
FESPH35-1500	35	1500	30
FESPH35-1800	35	1800	30
FESPH35-2200	35	2200	15
FESPH35-3000	35	3000	10
...
FESPH50-600	50	600	25
FESPH50-800	50	800	25
FESPH50-1000	50	1000	25
FESPH50-1400	50	1400	20
FESPH50-1500	50	1500	20
FESPH50-1800	50	1800	15
FESPH50-2000	50	2000	15
FESPH50-2200	50	2200	10

FESPH50-2600	50	2600	10
FESPH50-3000	50	3000	5
...
FESPH70-600	70	600	25
FESPH70-800	70	800	25
FESPH70-1000	70	1000	25
FESPH70-1400	70	1400	20
FESPH70-1500	70	1500	20
FESPH70-1800	70	1800	15
FESPH70-2200	70	2200	10
FESPH70-3000	70	3000	5
...
FESPH95-1000	95	1000	20
FESPH95-1200	95	1200	20
FESPH95-1500	95	1500	15
FESPH95-2000	95	2000	10
FESPH95-2500	95	2500	5
FESPH95-3000	95	3000	5
...

-Standard connection = M10

-Connection: welded technique

TERMINAL CABLE "PERFECT" – 120 mm²



For section 120 mm² the connection is executed with ferrule technique

Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FEHPH120-2000	120	2000	5
FEHPH120-2200	120	2200	5
FEHPH120-3000	120	3000	4
...

-Standard connection = M10

TERMINAL CABLE "PERFECT" – OTHER VERSIONS*



Also available in other lengths

For example: FESPH35-2750= Terminal Cable Perfect FESPH 35-2750

Also available in other sections: 10 / 16 mm²

For example: FESPH16-1000 = Terminal Cable Perfect FESPH 16-1000

Can be provided with integrated fuse from 200 A up to 500A

For example: FESPH50-1500-FUS5= Terminal Cable Perfect FESPH 50-1500 - fuse 500 A



Maximum cable section with fuse is 70 mm²

Also available in UL94 V0 flammability rating

(V0: burning stops within 10 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed.)

*For these versions, please contact us

"Perfect" Connectors

"PERFECT" CONNECTORS – STANDARD VERSIONS



Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FVSPH25-080	25	80	216
FVSPH25-095	25	95	192
FVSPH25-110	25	110	168
FVSPH25-130	25	130	156
FVSPH25-150	25	150	144
FVSPH25-200	25	200	120
FVSPH25-250	25	250	84
FVSPH25-300	25	300	48
...
FVSPH35-080	35	80	216
FVSPH35-095	35	95	192
FVSPH35-110	35	110	168
FVSPH35-130	35	130	156
FVSPH35-150	35	150	144
FVSPH35-170	35	170	120
FVSPH35-200	35	200	120
FVSPH35-250	35	250	48
FVSPH35-300	35	300	48
...
FVSPH50-095	50	95	180
FVSPH50-110	50	110	144
FVSPH50-130	50	130	144
FVSPH50-150	50	150	144
FVSPH50-170	50	170	120
FVSPH50-200	50	200	120
FVSPH50-300	50	300	60
...
FVSPH70-095	70	95	180
FVSPH70-110	70	110	144
FVSPH70-130	70	130	144

FVSPH70-150	70	150	144
FVSPH70-170	70	170	120
FVSPH70-200	70	200	108
FVSPH70-250	70	250	84
FVSPH70-300	70	300	60
...
FVSPH95-095	95	95	180
FVSPH95-110	95	110	144
FVSPH95-130	95	130	120
FVSPH95-150	95	150	120
FVSPH95-170	95	170	120
FVSPH95-190	95	190	100
FVSPH95-210	95	210	90
FVSPH95-300	95	300	60
...

-Standard connection = M10

-Connection: welded technique

“PERFECT” CONNECTORS – 120 mm²



For section 120 mm² the connection is executed with ferrule technique

Ordering code	Section (mm ²)	Length (mm)	Packing unit (pieces)
FVHPH120-095	120	95	100
FVHPH120-110	120	110	100
FVHPH120-165	120	165	50
FVHPH120-340	120	340	30
...

-Standard connection = M10

“PERFECT” CONNECTORS – OTHER VERSIONS*



Also available in other lengths

For example: FVSPH25-1000 = Connector Perfect 25 mm² - 1000 mm

Also available in other sections: 10 / 16 mm²

For example: FVSPH16-250 = Connector Perfect 16 mm² - 250 mm

Can be provided with integrated fuse from 200 A up to 500A



For example: FVSPH35-350F3A = Connector Perfect 35/350 - Fuse 300 A

Maximum cable section with fuse is 70 mm²

Also available in UL94 V0 flammability rating

(V0: burning stops within 10 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed.)

*For these versions, please contact us

Rigid Connectors

RIGID OVERMOLDED CONNECTORS – STANDARD VERSIONS



Ordering code	Width (mm)	Thickness (mm)	Length	Cross-Sect. (mm ²)
SV30x3-60-M10	30	3	60	90
SV30x3-80-M10	30	3	80	90
SV30x3-82-M10	30	3	82	90
SV30x3-85-M10	30	3	85	90
SV30x3-92-M10	30	3	92	90
SV30x3-115-M10	30	3	115	90
SV30x3-123-M10	30	3	123	90
SV30x3-125-M10	30	3	125	90
SV30x3-135-M10	30	3	135	90
SV30x3-143-M10	30	3	143	90
SV30x3-155-M10	30	3	155	90
SV30x3-163-M10	30	3	163	90
SV30x3-175-M10	30	3	175	90
SV30x3-178-M10	30	3	178	90
SV30x5-115-M10	30	5	115	150
SV30x5-125-M10	30	5	125	150
SV30x5-132-M10	30	5	132	150
SV30x5-135-M10	30	5	135	150
SV30x5-155-M10	30	5	155	150
SV30x5-163-M10	30	5	163	150
SV30x5-175-M10	30	5	175	150
SV30x5-195-M10	30	5	195	150
SV30x10-115-M10	30	10	115	300
SV30x10-125-M10	30	10	125	300
SV30x10-132-M10	30	10	132	300
SV30x10-135-M10	30	10	135	300
SV30x10-155-M10	30	10	155	300

-Standard connection = M10

RIGID OVERMOLDED CONNECTORS – OTHER VERSIONS*



Also available with M6 and M8 connections

For example: SV30x3-85-M8 = Rigid Connector 30x3 - L=85mm - M8 - w/o insulation cap

Also available in other lengths

Only on special request

Also available in 20 mm width and 2mm thick

For example: SV20x2-61-M10 = Rigid connector 20x2mm - L=61mm - M10 - w/o insulation cap



Also available with Perfect connector and 20 mm width








For example: SVPH20x2-61-M10 = Rigid connector 20x2mm - L61mm - M10 - w/o insulation cap






*For these versions, please contact us

Screws and Accessories

SCREWS / CU-RINGS / GASKETS / CAPS		
		
	Ordering code	Description
	SCR1016-MM	Screw steel M10x16 - with testing point *also available without coating, add -NP to the ordering code
	SCR1018-MM	Screw steel M10x18 - with testing point *also available without coating, add -NP to the ordering code
	SCR1022-MM	Screw steel M10x22 - with testing point *also available without coating, add -NP to the ordering code
	SCR1025-MM	Screw steel M10x25 - with testing point *also available without coating, add -NP to the ordering code
	SCR1034-MM	Screw steel M10x34 - with testing point *also available without coating, add -NP to the ordering code
	SCREWAC	Screw M10x22 with aux. contact M6 *for other executions (measurements), please contact us *also available without coating, add -NP to the ordering code
	DBM08M10 DBM10M10	Double sided bolt M8/M10 with "Fixcoat" Double sided bolt M10/M10 with "Fixcoat" *also available without coating, add -NP to the ordering code
	SCR121	Screw Hawker Perfect M10x20 Din 933 - V2A *also available without coating, add -NP to the ordering code
	FVPH-CAP-NEG	Cap Perfect - black - with testing point Also available in red, blue, orange, yellow without warning symbol or gray with warning symbol

	FVPH-CAP-POS	Cap Perfect - black - without testing point Also available in red, blue, orange, yellow without warning symbol or gray with warning symbol
	ROND10-15-2.3	Copper ring M10 – height 2,3 mm
	ROND10-F	Copper ring M10 – 10.4 x 15 x 5 mm
	RONDP375	Ring gasket 37 x 10,5 x 2
	RONDP3753	Ring gasket 37,5 x 15 x 3
	ROND10-PP-18-2	Adapter ring between “Flex” connector and EnerSys terminal
	ZGEL25 ZGEL35 ZGEL50 ZGEL70 ZGEL95 ZGEL120	Cable Clamps for Battery Tray 25 mm ² Cable Clamps for Battery Tray 35 mm ² Cable Clamps for Battery Tray 50 mm ² Cable Clamps for Battery Tray 70 mm ² Cable Clamps for Battery Tray 95 mm ² Cable Clamps for Battery Tray 120 mm ²

Charging Cables

CHARGING CABLES	
	<p><u>Charging Cable for Female Thread</u></p> <ul style="list-style-type: none"> - Cable cross sections: 16 mm² and 25 mm² - Thread size: M6, M8 and M10 - Several lengths possible <p><i>For example: VC16-0500M08 = Charging connector 16mm² - Conn. M8 - L=500mm</i></p>
	<p><u>Charging Cable for DIN Pole "S Type"</u></p> <ul style="list-style-type: none"> - Cable cross sections: 10 mm² and 16 mm² - Thread size: M6, M8 and M10 - Fully insulated - Several lengths possible <p><i>For example: VSI16-0500 = Charging connector S-type - insulated - 16mm² - L=500mm</i></p>
	<p><u>Charging Cable for DIN Pole "T Type"</u></p> <ul style="list-style-type: none"> - Cable cross sections: 10 mm² and 16 mm² - Thread size: M6, M8 and M10 - Fully insulated - Several lengths possible <p><i>For example: VCI25-0500M10 = Charging connector insulated 25mm² - M10 - L=500 mm</i></p>

-For more info and ordering codes, please contact us