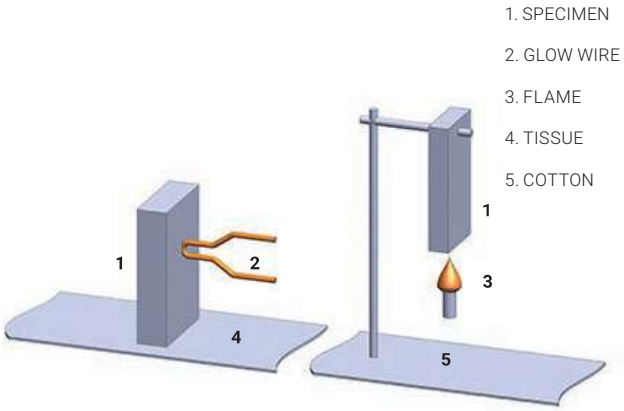
nVent ERIFLEX Advanced Technology

POWER AND DISTRIBUTION BLOCKS

nVent ERIFLEX Blocks are Flame Retardant (FR):

Flame Retardant (FR) material, also called Self Extinguishing material, has the effect of slowing down the spread of fire and according to the international standards such as:

- UL 94V-0
- IEC 60695-2 (Glow Wire test)



Flame retardant feature, Advanced technology is compliant to UL 94-V0 and IEC 60695-2-11 Glow Wire test 960°C. The flame retardant portion of the test illustrates the self-extinguishing feature and reducing the risk of the spread of fire and less damage to your electrical installation. It also reduces the damage on electrical installations.

Single Pole Distribution Blocks

MAIN FEATURES

Economical Solution in a Compact Footprint

Line side connection with one cable, two cables or flat conductor (nVent ERIFLEX Flexibar Advanced or ready-to-use power braid IBS/IBSB Advanced) in function of the model

Patented design includes screw retaining, transparent blue cover

Hinged or removable cover

IP 20 finger safe

Tinned copper or tinned aluminum block allows for copper or aluminum conductor direct connections, or using ferrule.

AL suffix on Part Nr means Tinned Aluminium Block.

High Fill Ratio (> 95%) allows conductor connection with or without ferrule

Modular snap-together blocks to build multi-pole blocks

Patented unique design. Allows for visual inspection of wire and confirmation of connection

Easy fixing: clip on DIN Rail or mount to panel with screws

IP20 Slider: ensures to keep IP20 finger safe feature with any of the listed conductor sizes. Ensures the proper positioning of small conductor size, aligned to the center of the block, for optimized mechanical and electrical contact.

- UL 1059 Recognized or UL 1953 Listed in function of the model
- CSA® C22.2 NO. 158 in function of the model
- Tested and certified according to IEC 60947-7-1
- Short Circuit Current Rated up to 100 kA – See UL file E198301
- Ui = 1000V AC/DC IEC minimum 600 V UL or 1000V UL in function of the model
- Halogen-free
- Flammability Rating: UL 94V-0
- RoHS Compliant

Single Pole Distribution Blocks – Quick Selection Guide

SINGLE POLE DISTRIBUTION BLOCKS (UD SERIES) – QUICK SELECTION GUIDE

Part number	Article number	Typical IEC Current	Max UL Current	Line side: Nbre of connection	Line side Min and Max conductor size	Load side: Nbre of connection	Load side Min and Max conductor size	Max working voltage IEC	Max working voltage UL
UD-80A	569010	80 A	85 A	1 Cable	6–16 mm² #16–# 4 AWG	6 Cables	2.5–16 mm² #16–# 4 AWG	1,000 VAC/DC	600 VAC/DC
UDJ-125A	569020	125 A	150 A	1 Cable	10–35 mm² #8–1/0 AWG	7 Cables	2.5–16 mm² #14–# 4 AWG	1,000 VAC/DC	600 VAC/DC
UDJ-160A	569030	160 A	200 A	1 Cable	10–70 mm² #8–3/0 AWG	7 Cables	2.5–16 mm² #14–# 4 AWG	1,000 VAC/DC	600 VAC/DC
UD-250A	569040	250 A	255 A	1 Cable	35–120 mm² #6 AWG–250 kcmil	11 Cables	2.5–35 mm² #14–# 1 AWG	1,000 VAC/DC	600 VAC/DC
UDF-250A	569041	250 A	255 A	Flat Conductor	Flexibar 3X9X0.8–6x15.5x0.8	6 Cables	2.5–16 mm² #14–# 4 AWG	1,000 VAC/DC	600 VAC/DC
UD-400112AL	569252	400 A	335 A	1 Cable	95–185 mm² 3/0 AWG–400 kcmil	12 Cables	2.5–10 mm² # 14–# 6 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD-400112CU	569052	400 A	335 A	1 Cable	96–185 mm² 3/0 AWG–400 kcmil	12 Cables	2.5–10 mm² # 14–# 6 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD-400212AL	569251	400 A	400 A	2 Cables	35–95 mm² #8–3/0 AWG	12 Cables	2.5–10 mm² # 14–# 6 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD-400212CU	569051	400 A	400 A	2 Cables	35–95 mm² #8–3/0 AWG	12 Cables	2.5–10 mm² # 14–# 6 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD-400A	569050	400 A	335 A	1 Cable	95–185 mm² 3/0 AWG–400 kcmil	11 Cables	2.5–35 mm² #14–# 1 AWG	1,000 VAC/DC	600 VAC/DC
UDF-500A	569060	500 A	335 A	Flat Conductor	Flexibar 4x15.5x0.8–8x24x1	11 Cables	2.5–35 mm² #14–# 1 AWG	1,000 VAC/DC	600 VAC/DC
UD6C500AL	569201	500 A	380 A	1 Cable	95–240 mm² 3/0AWG- 500 kcmil	6 Cables	10–50 mm² #8–1/0 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UDF6C500AL	569202	500 A	475 A	Flat Conductor	Flexibar 2x20x1–10x24x1 IBS/IBSB 50–100 mm²	6 Cables	10–50 mm² #8–1/0 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UDF9C500AL	569204	500 A	490 A	Flat Conductor	Flexibar 2x20x1–10x24x1 IBS/IBSB 50–100 mm²	9 Cables	4–25 mm² #12–# 4 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UDF12C500AL	569206	500 A	500 A	Flat Conductor	Flexibar 2x20x1–10x24x1 IBS/IBSB 50–100 mm²	12 Cables	4–25 mm² #12–# 4 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD9C630AL	569203	630 A	420 A	1 Cable	120–300 mm² 4/0 AWG- 600 kcmil	9 Cables	4–25 mm² #12–# 4 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD2C12C630AL	569205	630 A	670 A	2 Cables	95–185 mm² 3/0 AWG–400 kcmil	12 Cables	4–25 mm² #12–# 4 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UDF12C800AL	569208	800 A	670 A	Flat Conductor	Flexibar 2x20x1–10x32x1 IBS/IBSB 50–240 mm²	12 Cables	4–25 mm² #12–# 4 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD2C12C1000AL	569207	1000 A	760 A	2 Cables	35–240 mm² 2 AWG–500 kcmil	12 Cables	4–25 mm² #12–# 4 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UDF9C1000AL	569210	1000 A	840 A	Flat Conductor	Flexibar 6x24x1–10x50x1 IBS/IBSB 120–240 mm²	9 Cables	10–95 mm² #8–3/0 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC
UD2C9C1250AL	569209	1250 A	950 A	2 Cables	185–400 mm² 400 kcmil–750 kcmil	9 Cables	10–95 mm² #8–3/0 AWG	1,000 VAC, 1,500 VDC	1,000 VAC/DC

Single Pole Distribution Blocks

UD 80 A

UDJ 125 A

FSJ

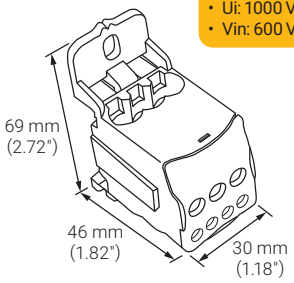
UDJ 160 A

UD-80 A
80 A – IEC
85 A – cULus CSA

Cable to six cables

- Modular: keeping only one input, the blocks can be supplied in parallel using a jumper wire. Easily double the neutral.

- Icw kA rms 1s : 3
- Ipk kA : 22
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



Metric				
No. Terminals		Conductor	Size mm²	Ø mm
x1			6–16	6.8
x6			2.5–6 (x4) 2.5–16 (x2)	4.5 6.8

Imperial				
No. Terminals		Conductor	Size AWG	Ø in
x1			#16-#4	0.27
x6			#16-#8 (x4) #16-#4 (x2)	0.177 0.27

Rigid stranded cable

Flexible stranded cable

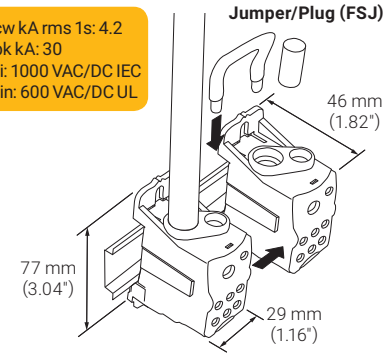
Art. Nr.	Description		kg/lbs
569010	UD-80A	1	0.07 / 0.15

UDJ-125 A
125 A – IEC
150 A – cULus CSA

Cable to seven cables

- Modular: keeping only one input, the blocks can be supplied in parallel using a FSJ Jumper. Easily double the neutral.

- Icw kA rms 1s: 4.2
- Ipk kA: 30
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



Metric				
No. Terminals		Conductor	Size mm²	Ø mm
x1			10–35	10
x7			6–16 (x1) 2.5–16 (x4)/(x6)	6.8 6.8

Imperial				
No. Terminals		Conductor	Size AWG	Ø in
x1			#8–1/0	0.394
x7			#14–#2 (x1) #14–#4 (x6)	0.27 0.27

Rigid stranded cable

Flexible stranded cable

Art. Nr.	Description		kg/lbs
569020	UDJ-125 A	1	0.15/0.33
569150	FSJ*	25	0.03/0.07

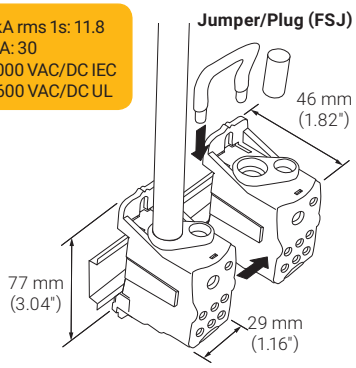
* Not UL® Recognized

UDJ-160 A
160 A – IEC
200 A – cULus CSA

Cable to seven cables

- Modular: keeping only one input, the blocks can be supplied in parallel using a FSJ Jumper. Easily double the neutral.

- Icw kA rms 1s: 11.8
- Ipk kA: 30
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



Metric				
No. Terminals		Conductor	Size mm²	Ø mm
x1			10–70	12.3
x7			6–16 (x1) 2.5–16 (x4)/(x6)	6.8 6.8

Imperial				
No. Terminals		Conductor	Size AWG	Ø in
x1			#8–3/0	0.484
x7			#14–#2 (x1) #14–#4 (x6)	0.27 0.27

Rigid stranded cable

Flexible stranded cable

Art. Nr.	Description		kg/lbs
569030	UDJ-160 A	1	0.15/0.33
569150	FSJ*	25	0.03/0.07

* Not UL® Recognized

Single Pole Distribution Blocks

UD 250 A

FLG 250

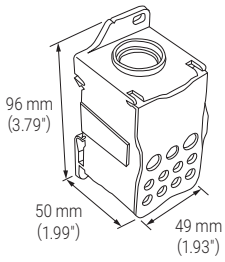
Allows Flexibar Advanced connection.

UDF 250A

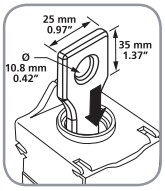
UD-250A
250 A – IEC
255 A – cULus CSA

Cable to eleven cables

- Icw kA rms 1s: 24.5
- Ipk kA: 51
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



DIRECT FLG 250:
WITH Flexibar



Direct link between the block and a switch

Metric				
	No. Terminals	Conductor	Size mm²	Ø mm
	x1		35–120	15
	x11		6–25 (x2) / 6–35 (x2) 2.5–16 (x5) 2.5–10 (x4)	9 6.8 6.1

Imperial				
	No. Terminals	Conductor	Size AWG	Ø in
	x1		#6–250 kcmil	0.59
	x11		#10–#1 (x2) #14–#4 (x5) #14–#6 (x4)	0.354 0.27 0.24

Rigid stranded cable

Flexible stranded cable

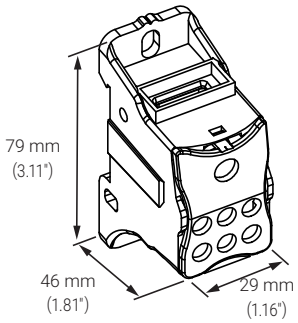
Art. Nr.	Description		kg/lbs
569040	UD-250A	1	0.42/0.89
569160	FLG250*	10	0.05/0.12

* Not UL recognized and not IP20

UDF-250A
250 A – IEC
255 A – cULus

Flat conductor to six cables

- Icw kA rms 1s: 23.0
- Ipk kA: 23
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



Metric				
	No. Terminals	Conductor	Size mm²	Ø mm
	x1	Flexibar Advanced	3x9x0.8–6x15.5x0.8	N/A
	x6		2.5–16 (x6)	6.8

Imperial				
	No. Terminals	Conductor	Size AWG	Ø in
	x1	Flexibar Advanced	3x9x0.8–6x15.5x0.8	N/A
	x6		#14–#4 (x6)	0.27

Rigid stranded cable

Flexible stranded cable

Art. Nr.	Description		kg/lbs
569041	UDF-250A	1	0.15 / 0.33

Single Pole Distribution Blocks

UD 400 A

FLG 400

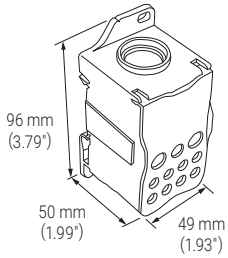
Allows Flexibar Advanced connection.

UDF 500A

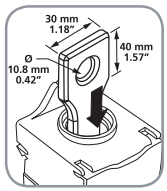
UD-400 A
400 A – IEC
335 A – cULus CSA

Cable to eleven cables

- Icw kA rms 1s: 24.5
- Ipk kA: 51
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



DIRECT FLG 400:
WITH Flexibar



Direct link between the block and a switch

Metric				
	No. Terminals	Conductor	Size mm²	Ø mm
	x1		95–185	19
	x11		6–25 (x2) / 6–35 (x2) 2.5–16 (x5) 2.5–10 (x4)	9 6.8 6.1

Imperial				
	No. Terminals	Conductor	Size AWG	Ø in
	x1		3/0–400 kcmil	0.748
	x11		#10–#1 (x2) #14–#4 (x5) #14–#6 (x4)	0.354 0.27 0.24

Rigid stranded cable

Flexible stranded cable

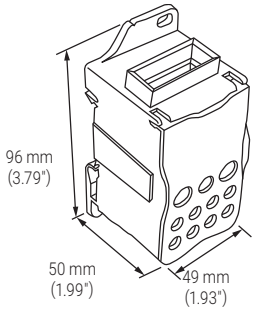
Art. Nr.	Description		kg/lbs
569050	UD-400A	1	0.4/0.89
569170	FLG400*	10	0.05 / 0.12

* Not UL recognized and not IP20

UDF-500A
500 A – IEC
335 A – cULus

Flat conductor to eleven cables

- Icw kA rms 1s: 24.5
- Ipk kA: 51
- Ui: 1000 VAC/DC IEC
- Vin: 600 VAC/DC UL



Metric				
	No. Terminals	Conductor	Size mm²	Ø mm
	x1	Flexibar Advanced	4x15.5x0.8–8x24x1	N/A
	x11		2.5–16 (x5) 2.5–10 (x4) 6–25 (x2)	6.8 6.1 9

Imperial				
	No. Terminals	Conductor	Size AWG	Ø in
	x1	Flexibar Advanced	4x15.5x0.8–8x24x1	N/A
	x11		#14–#4 (x5) #14–#6 (x4) #10–#1 (x2)	0.27 0.24 0.354

Rigid stranded cable

Flexible stranded cable

Art. Nr.	Description		kg/lbs
569060	UDF-500A	1	0.37 / 0.82