WPD 204 2X25/4X16+6X10 2XBK

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Our WPD 1XX distribution blocks are used in all situations where power is supplied and distributed. Their user-friendly design creates a better overview and enables Rapid, efficient implementation of space-saving power distribution.

General ordering data

Version	Potential distributor terminal, Screw connection, black, 25 mm², 164 A, 1000 V, Number of connections: 12, Number of levels: 1
Order No.	2725390000
Type	WPD 204 2X25/4X16+6X10 2XBK
GTIN (EAN)	4050118796193
Qty.	1 pc(s).

WPD 204 2X25/4X16+6X10 2XBK

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Technical data

Dimensions and weights

Depth	49 mm	Depth (inches)	1.929 inch
Height	68 mm	Height (inches)	2.677 inch
Width	63 mm	Width (inches)	2.48 inch
Net weight	202 g		

Temperatures

Storage temperature	-25 °C...55 °C	Ambient temperature	-5 °C...40 °C
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	130 °C

Material data

Material	Wemid	Colour	black
UL 94 flammability rating	V-0		

System specifications

Version	Screw connection	End cover plate required	No
Number of potentials	1	Number of levels	1
Number of clamping points per level	2	Number of potentials per tier	1
Levels cross-connected internally	Yes	Rail	Mounting plate, TS 35
N-function	No	PE function	No
PEN function	No		

Additional technical data

Explosion-tested version	Yes	Open sides	closed
Type of mounting	Snap-on		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Clamping range, max.	25 mm²	Clamping range, min.	1.5 mm²
Connection cross-section, stranded, max.	25 mm²	Connection direction	on side
Number of connections	12	Type of connection	Screw connection
Type of connection 2	Screw connection	Wire connection cross section AWG, max.	AWG 4
Wire connection cross section AWG, min.	AWG 16	Wire connection cross section, finely stranded, max.	0 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	16 mm²	Wire connection cross-section, solid core, max.	25 mm²

General

Number of poles	2	Rail	Mounting plate, TS 35
Standards	IEC 60947-7-1, UL 1059	Wire connection cross section AWG, max.	AWG 4
Wire connection cross section AWG, min.	AWG 16		

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Technical data

Rating data

Rated cross-section	25 mm²	Rated voltage	1,000 V
Rated AC voltage	1,000 V	Rated DC voltage	1,000 V
Rated current	164 A	Current at maximum wires	164 A
Standards	IEC 60947-7-1, UL 1059	Power loss in accordance with IEC 60947-7-x	2.5 W

Classifications

ETIM 6.0	EC000897	ETIM 7.0	EC000897
ETIM 8.0	EC000897	ETIM 9.0	EC000897
ETIM 10.0	EC000897	ECLASS 9.0	27-14-11-20
ECLASS 9.1	27-14-11-20	ECLASS 10.0	27-14-11-20
ECLASS 11.0	27-14-11-20	ECLASS 12.0	27-14-11-20
ECLASS 13.0	27-25-01-19	ECLASS 14.0	27-25-01-19
ECLASS 15.0	27-25-01-19		

Approvals

Approvals	CE
Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/
ROHS	Conform

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	e1c310ef-6b67-4efa-80a6-d307472f4de9

Important note

Product information	The socket complies with flammability class V-2 according to UL94.

Downloads

Approval/Certificate/Document of Conformity	UKCA Ex Attestation of Conformity CB Certificate CE Declaration of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
User Documentation	DATA SHEET WPD 204 Manual - How to connect aluminum wires in WPD-Terminal blocks Torque_Conductor_Connection_Data_WPD_EN Drehmoment_Leiteranschlussdaten_WPD_DE
Catalogues	Catalogues in PDF-format

WPD 204 2X25/4X16+6X10 2XBK

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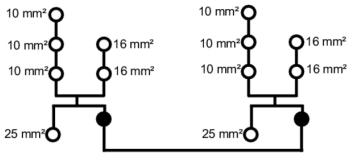
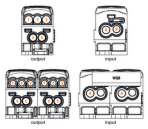
Drawings



Conductor connection data according to IEC 60947-7-1 (Cu)

Input	connection point A			
	Copper		Aluminum*	
	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□
25 mm²	2.5 Nm	2.5 Nm	5.1 Nm	5.1 Nm
16 mm²				
10 mm²				
6 mm²				
4 mm²				
2.5 mm²				
1.5 mm²				
Stripping lengths	19 mm			
Allen screw	M6			
* Values according to UL 1059				

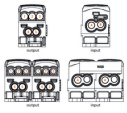


Output	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminum*		Copper		Aluminum*		Copper		Aluminum*	
	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□
16 mm²	2 Nm	2 Nm	5.1 Nm		2.5 Nm	2.5 Nm	5.1 Nm		2.5 Nm	2.5 Nm	5.1 Nm	
10 mm²								5.1 Nm				5.1 Nm
6 mm²												
4 mm²												
2.5 mm²												
1.5 mm²												
Stripping lengths	12 mm				14 mm				19 mm			
Allen screw	M5				M6				M6			
* Values according to UL 1059												

⊏ ⊐ Stranded ⊏ ⊐ Solid □ Flexible with ferrule ⊏ ⊐ Sector shaped

Conductor connection data according to UL 1059 (Al+Cu)

Certificate no. (UR)	32992-200003			
	connection point A			
Input (line)	Copper		Aluminum	
	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□
AWG 4	22.1 Lb.In.		45.1 Lb.In.	45.1 Lb.In.
AWG 6				
AWG 8		22.1 Lb.In.		
AWG 10				
AWG 12				
max. current	85 A	65 A	65 A	50 A
Voltage size B.C (UR)	600 V			

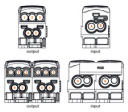


output (load)	connection point 1/2/3				connection point 4/5								connection point B			
	Copper		Aluminum		Copper		Aluminum		Copper		Aluminum		Copper		Aluminum	
	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□	⊏ ⊐ ⊐	□
AWG 4																
AWG 6			45.1 Lb.In.				45.1 Lb.In.	45.1 Lb.In.							45.1 Lb.In.	
AWG 8																
AWG 10	22.1 Lb.In.	22.1 Lb.In.			22.1 Lb.In.	22.1 Lb.In.			22.1 Lb.In.	22.1 Lb.In.						
AWG 12																
AWG 14																
AWG 16																
max. current	65 A	50 A	50 A		85 A	65 A	65 A	50 A	65 A	50 A	50 A					
Voltage size B.C (UR)	600 V															

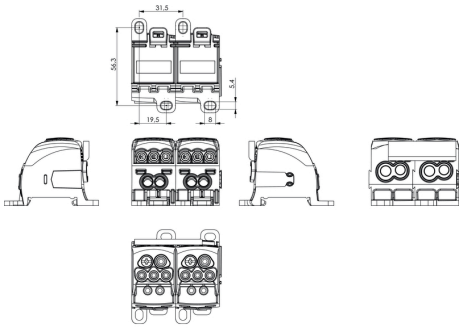
⊏ ⊐ Stranded ⊏ ⊐ Solid □ Flexible with ferrule

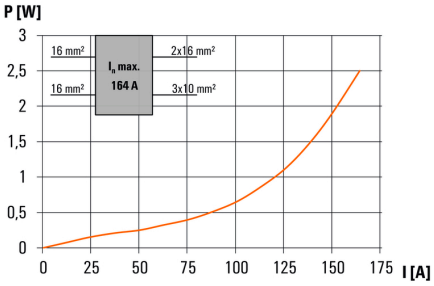
CSA Rating data according to CSA 22.2 No. 158

Certificate No. (CSA)	200837			
	Input		Output	
	CP* A	CP* 1/2/3	CP* 4/5	CP*B
AWG 4	2.5 Nm.			
AWG 6				
AWG 8				
AWG 10		2.5 Nm	2.5 Nm	2.5 Nm
AWG 12				
AWG 14				
AWG 16				
max. current	85 A	50 A	50 A	85 A
Voltage size C (CSA)	600 V			
* CP: connection point				



⊏ ⊐ Stranded ⊏ ⊐ Solid □ Flexible with ferrule



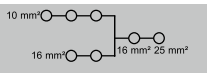


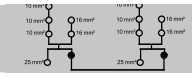
Power distribution
Screw connection

W-Series
WPD 104 1x25+1x16/2x16+3x10

WPD 104	25 mm²	WPD 204	25 mm²

Width / Height / Depth	**mm**	**31.5 / 49 / 68**	**63 / 49 / 68**
max. current / max. conductor	**A/mm²**	**101 / 25**	**101 / 25**
max. clamping range	**mm²**	**1.5...25**	**1.5...25**





Technical data

Rated data			IEC	UL	CSA	EN 60079-7
Rated voltage		V	1000	600	600	550
Rated current		A	101	85	85	101
for wire cross-section	25 mm²	mm²	25	AWG 12...4	AWG 12...4	25
Rated impulse withstand voltage / Pollution severity			8 kV / 3			
Overvoltage category / UL 94 flammability rating			III / V-0			
Approvals						
Clamped conductors (H05V/H07V)			**Rated connection**			
Solid / Stranded	25 mm²	mm²	2.5...25 / 2.5...25			
	16 mm²	mm²	1.5...16 / 1.5...16			
	10 mm²	mm²	1.5...10 / 1.5...10			
Flexible with ferrule	25 mm²	mm²	1.5...16			
	16 mm²	mm²	1.5...10			
	10 mm²	mm²	1.5...6			
Stripping length / Blade size	25 mm²	mm/–	12 / M5			
	16 mm²	mm/–	14 / M6			
	10 mm²	mm/–	19 / M6			
Tightening torque		Nm	see appendix at the end of the chapter			
Note						

Rated data			IEC	UL	CSA	EN 60079-7
Rated voltage		V	1000	600	600	550
Rated current		A	101	85	85	101
for wire cross-section	25 mm²	mm²	25	AWG 12...4	AWG 12...4	25
Rated impulse withstand voltage / Pollution severity			8 kV / 3			
Overvoltage category / UL 94 flammability rating			III / V-0			
Approvals						
Clamped conductors (H05V/H07V)			**Rated connection**			
Solid / Stranded	25 mm²	mm²	2.5...25 / 2.5...25			
	16 mm²	mm²	1.5...16 / 1.5...16			
	10 mm²	mm²	1.5...10 / 1.5...10			
Flexible with ferrule	25 mm²	mm²	1.5...16			
	16 mm²	mm²	1.5...10			
	10 mm²	mm²	1.5...6			
Stripping length / Blade size	25 mm²	mm/–	12 / M5			
	16 mm²	mm/–	14 / M6			
	10 mm²	mm/–	19 / M6			
Tightening torque		Nm	see appendix at the end of the chapter			
Note						

Ordering data

Version		Type	Qty.	Order No.
	grey	WPD 104 1x25+1x16/2x16+3x10 GY	1	**1562000000**
	blue	WPD 104 1x25+1x16/2x16+3x10 BL	1	**2518250000**
	red	WPD 104 1x25+1x16/2x16+3x10 RD	1	**2725260000**
	black	WPD 104 1x25+1x16/2x16+3x10 BK	1	**2725360000**
Note				

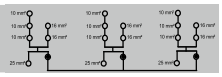
Version		Type	Qty.	Order No.
	grey	WPD 204 2X25/4X16+6X10 2XGY	1	**1562150000**
	blue	WPD 204 2X25/4X16+6X10 2XBL	1	**2518330000**
	red	WPD 204 2x25/4x16+6x10 2xRD	1	**2725290000**
	black	WPD 204 2x25/4x16+6x10 2xBK	1	**2725390000**
Note				

Accessories

Cross connection		Type	Qty.	Order No.
	2-pole	WQB WPD X04/2	20	**1561980000**
	3-pole	WQB WPD X04/3	20	**1561990000**
End bracket				
	dark beige	WEW 35/2	100	**1061200000**
	dark beige	AEB 35 SC/1	50	**1991920000**
Screwdriver				
		SDK PZ2 X 100	1	**2749450000**
	SET	SK WSD-S 1,5-10,0	1	**9008850000**

Cross connection		Type	Qty.	Order No.
	2-pole			
	3-pole			
End bracket				
	dark beige	WEW 35/2	100	**1061200000**
	dark beige	AEB 35 SC/1	50	**1991920000**
Screwdriver				
		SDK PZ2 X 100	1	**2749450000**
	SET	SK WSD-S 1,5-10,0	1	**9008850000**

WPD 304 — 25 mm²

94.5 / 49 / 68	
101 / 25	
1.5...25	

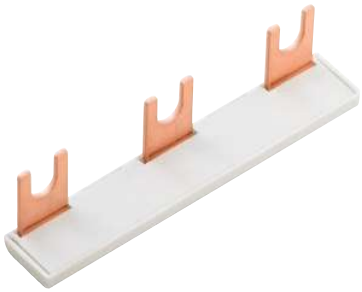
IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

IEC	UL	CSA	EN 60079-7
1000	600	600	550
101	85	85	101
25	AWG 12...4	AWG 12...4	25
8 kV / 3			
III / V-0			

Rated connection
2.5...25 / 2.5...25
1.5...16 / 1.5...16
1.5...10 / 1.5...10
1.5...16
1.5...10
1.5...6
12 / M5
14 / M6
19 / M6
see appendix at the end of the chapter

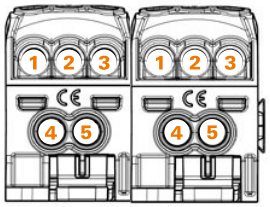
Type	Qty.	Order No.
WPD 304 3X25/6X16+9X10 3XGY	1	1562160000
WPD 304 3X25/6X16+9X10 3XBL	1	2518340000
WPD 304 3x25/6x16+9x10 3xRD	1	2725300000
WPD 304 3x25/6x16+9x10 3xBK	1	2725400000

Type	Qty.	Order No.
WEW 35/2	100	1061200000
AEB 35 SC/1	50	1991920000
SDK PZ2 X 100	1	2749450000
SK WSD-S 1,5-10,0	1	9008850000

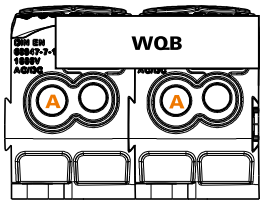


Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (Cu+Al)

Input	connection point A			
	Copper		Aluminium*	
25 mm²	2,5 Nm		5,1 Nm	
16 mm²				5,1 Nm
10 mm²		2,5 Nm		
6 mm²				
4 mm²				
2.5 mm²				
1.5 mm²				
Stripping lengths	19 mm			
Allen screw	M6			
* Values according to UL 1059				



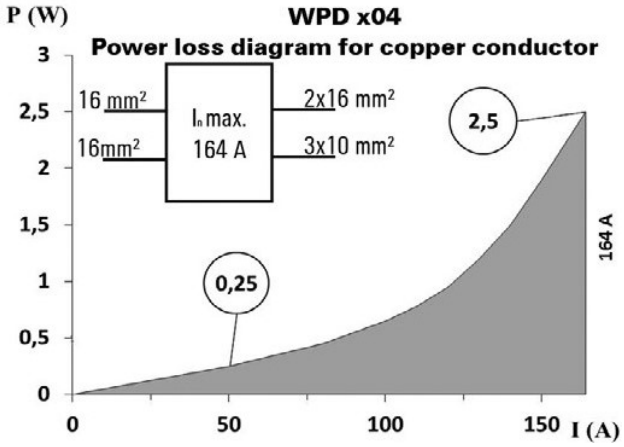
output



input

Output	connection point 1/2/3				connection point 4/5				connection point B			
	Copper		Aluminium*		Copper		Aluminium*		Copper		Aluminium*	
16 mm²					2,5 Nm		5,1 Nm		2,5 Nm			
10 mm²	2 Nm		5,1 Nm			2,5 Nm		5,1 Nm		2,5 Nm	5,1 Nm	
6 mm²		2 Nm										
4 mm²												
2.5 mm²												
1.5 mm²												
Stripping lengths	12 mm				14 mm				19 mm			
Allen screw	M5				M6				M6			
* Values according to UL 1059												

Stranded Solid Flexible with ferrule Sector shaped



UL Rating data according to UL 1059

Certificate no. (UR)	XCFR2.E60693			
	connection point A			
Input (line)	Copper		Aluminium	
AWG 4	22.1 Lb In.		45.1 Lb In.	
AWG 6		22.1 Lb In.		45.1 Lb In.
AWG 8				
AWG 10				
AWG 12				
max. current	85 A	65 A	65 A	50 A
Voltage size B,C (UR)	600 V			

	connection point 1/2/3				connection point 4/5				connection point B			
output (load)	Copper		Aluminium		Copper		Aluminium		Copper		Aluminium	
AWG 4					22.1 Lb In.		45.1 Lb In.					
AWG 6	22.1 Lb In.		45.1 Lb In.			22.1 Lb In.		45.1 Lb In.	22.1 Lb In.		45.1 Lb In.	
AWG 8		22.1 Lb In.								22.1 Lb In.		
AWG 10												
AWG 12												
AWG 14												
AWG 16												
max. current	65 A	50 A	50 A		85 A	65 A	65 A	50 A	65 A	50 A	50 A	
Voltage size B,C (UR)	600 V											

Mehrdrähtig Eindrähtig Feindrähtig mit Aderendhülse

CSA-Bemessungsdaten nach CSA 22.2 Nr. 158

Certificate No. (CSA)	269832			
	Input		Output	
	CP* A	CP* 1/2/3	CP* 4/5	CP*B
AWG 4	2,5 Nm.			2,5 Nm
AWG 6		2,5 Nm	2,5 Nm	
AWG 8				
AWG 10				
AWG 12				
AWG 14				
AWG 16				
max. current	85 A	50 A	50 A	65 A
Voltage size C (CSA)	600 V			
* CP - connection point				