Building infrastructure

Efficiency and safety under one roof

Solutions for the specific requirements of building infrastructure

Weidmüller

1.6 Smart Metering connectivity technology

Lower energy costs and save resources

With intelligent measurement systems consisting of a counter and gateway, loads on power grids can be optimised and energy costs can be reduced. Thanks to an additional control box, devices can be switched on or off as needed. We provide you the connectivity solutions you need to integrate these kinds of systems – in compliance with FNN and DIN-VDE 0603 standards. Our portfolio also includes colour coded connectors with PUSH IN wire connection technology, pre-assembled energy cables and patch cables with 6 kV impulse withstand voltage to supplement these solutions. We also offer power distributors for top-hat rails and for devices as well as RJ45 and RJ12 couplings for the top-hat rail.

RJ45 patch cable for 6 kV
- 8-Pole, Cat 5e, IP30
- Impulse withstand voltage 6 kV
- Compact design and space-saving installation in the meter cabinet

Assembled energy cable in 6 kV
- 2-Pole energy cable 230 V
- Protection class IP30
- Different lengths and designs

OMNIMATE® connectors
- PUSH IN or screw connection
- Colour coded, 230 V
- Male headers, sockets or Y-sockets

Power top-hat rail distributor
- For TS 35 terminal rails
- Colour coded, 230 V
- Pluggable thanks to PUSH IN wire connection

Pluggable 3x energy distributor
- Double connection in PUSH IN design
- Colour coded, 230 V
- Protection class IP30

RJ 45 coupling, 360 degrees shielded
- With dust cap
- Can be snapped onto top-hat rails and meter crosses
- Compact design, height < 32 mm

For further information, visit our website:
www.weidmueller.com/smartmetering

LMN control cable (6kv surge voltage, double insulation) and low profile couplings (RJ12)

Type	Design	Length	Colour	Qty.	Order No.
IE-C6G06LR0003F40F40-X-K6KV	LMN (Local Metrologic Network)	0.3 m	●	1	2860910003
IE-C6G06LR0008F40F40-X-K6KV	LMN (Local Metrologic Network)	0.8 m	●	1	2860910008
IE-C6G06LR0011F40F40-X-K6KV	LMN (Local Metrologic Network)	1.1 m	●	1	2860910011
IE-TO-RJ12-C	Low Profile, height 37 mm	-	●●	10	2861240000

Power cable 6 kV surge voltage for Smart Metering power supply

Type	Product type	Connectors	Length	Qty.	Order No.
CH-SMC-00.33-VC180	Power cable, inverted male connector, closed on side	Male, straight / female, straight	330 mm length	10	2775880033
CH-SMC-00.33-OVP180	Power cable, inverted male connector, open on side	Male, straight / female, straight	330 mm length	10	2853620033
CH-SMC-00.33-CG90	Power cable, inverted male connector, closed on side	Male straight / female angled	330 mm length	10	2775910033
CH-SMC-00.33-ECB180	Power cable, extension Socket connector straight	Male, straight / female, straight	330 mm	10	2784110033
CH-SMC-00.33-OVP180	Power cable, extension Pin connector straight	Male, straight / female, straight	330 mm	10	2853620033
CH-SMC-00.33-ECB90	Power cable, extension Socket connector angled	Male straight / female angled	330 mm	10	2775960033
Power cable power supply 400 Volt					
CH-SMC-00.33-AB90	Power cable 400V / pin assignment 1 and 2	Male straight / Buchse gewinkelt	330 mm	10	2776030033
CH-SMC-00.33-Y3C90	Y Power cable 400V / pin assignment 1 and 2	Male straight / 2 x female angled	Male/female 330 mm Female/female 200mm	10	2775960033
Note: (1) also available in 800 mm length; (2) also available in 600, 800, 950, 1200 mm length					

Power cable with double insulation 6 kV

Type	Rated voltage	Note	Length	Qty.	Order No.
CH-SMC-KB-2X1.5-6KV-0050	600 V	2-pole / 1.5 mm² / PUR halogen-free	50 Meter	1	2852960050

Y Power cablefor Smart Metering voltage distribution

Type	Product type	Connectors	Length	Qty.	Order No.
CH-SMC-00.33-YCC90	Y Power cable	2 x female angled / 1 x male straight	Female/female 200 mm / male 330 mm	10	2774930033
CH-SMC-00.33-VCC180	Y Power cable	Male straight / double female straight / female straight	Male/female 330 mm / Female/female 200 mm	10	2775840033
CH-SMC-00.33-Y2C180	Y Power cable	Male straight / double female straight / open end	Male/female 330 mm / open end 200 mm	10	2775940033
CH-SMC-00.33-Y2C180/90	Y Power cable	Double female straight / female angled / open end	Female/female 330 mm / open end 1200 mm	10	2817670033

Ethernet patch cable RJ45, Cat.5e, 6 kV surge voltage, double insulation

Type	Product type	Category	Length	Colour	Qty.	Order No.
Patch cable blue (WAN)						
IE-C5ES8VB0003N40N40-B-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.3 m	●	1	2813820003
IE-C5ES8VB0004N40N40-B-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.4 m	●	1	2813820004
IE-C5ES8VB0005N40N40-B-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.5 m	●	1	2813820005
IE-C5ES8VB0010N40N40-B-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	1.0 m	●	1	2813820010
IE-C5ES8VB0015N40N40-B-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	1.5 m	●	1	2813820015
IE-C5ES8VB0020N40N40-B-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	2.0 m	●	1	2813820020
Patch cable green (HAN)						
IE-C5ES8VG0003N40N40-G-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.3 m	●	1	2814800003
IE-C5ES8VG0005N40N40-G-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.5 m	●	1	2814800005
IE-C5ES8VG0010N40N40-G-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	1.0 m	●	1	2814800010
IE-C5ES8VG0015N40N40-G-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	1.5 m	●	1	2814800015
IE-C5ES8VG0020N40N40-G-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	2.0 m	●	1	2814800020
Patch cable orange (CLS)						
IE-C5ES8VO0003N40N40-O-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.3 m	●	1	2814850003
IE-C5ES8VO0005N40N40-O-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	0.5 m	●	1	2814850005
IE-C5ES8VO0010N40N40-O-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	1.0 m	●	1	2814850010
IE-C5ES8VO0015N40N40-O-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	1.5 m	●	1	2814850015
IE-C5ES8VO0020N40N40-O-K6KV	Patch cable, RJ45	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	2.0 m	●	1	2814850020

Couplings for Ethernet patch cables Smart Metering

Type	Product type	Note	Qty.	Order No.
IE-TO-RJ45-C-LP	Terminal rail outlet, incl. mounting with meter cross, RJ45, coupling, IP20, Cat.6A	Low profile, height 32 mm	10	2812440000
IE-TO-RJ45-C-ZP-C5	Terminal rail outlet, RJ45, IP20, Cat. 5	Low profile, height 37 mm	10	2819260000
IE-TO-RJ45-C	Terminal rail outlet, RJ45, coupling, IP20, Cat.6A / Class EA (ISO/IEC 11801 2010)	High profile, height 67 mm	10	8946920000

Power top-hat rail distributor and pluggable energy distributor

Type	Product type	Note	Qty.	Order No.
RS VERT SUPPLY BLL	Mounting rail energy distributor	2-pole, color coded, 230 V, IP 30	10	8000074943
RS VERT SUPPLY BLL_F	Mounting rail energy distributor	2-pole, color coded, 230 V, IP 30	10	8000084731
RS VERT SUPPLY LMF	Mounting rail energy distributor	2-pole, color coded, 230 V, IP 30	10	8000076874
RS VERT SUPPLY LSF-SMT_F	Mounting rail energy distributor	2-pole, color coded, 230 V, IP 30	10	8000091885
Y-INTERFACE BLL	Pluggable double connector	2-pole, color coded, 230 V, IP 30	16	8000075197
Y-INTERFACE SL	Pluggable double connector	2-pole, color coded, 230 V, IP 30	16	8000075198

Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

We cannot guarantee that there are no mistakes in the publications or software provided by us to the customer for the purpose of making orders. We try our best to quickly correct errors in our printed media.

All orders are based on our general terms of delivery, which can be reviewed on the websites of our group companies where you place your order. On demand we can also send the general terms of delivery to you.

Made in Germany