



Connectors

Product overview

About Engelking

Engelking is a family-owned and operated business with over 40 years of experience. We specialize in connection technology, control components, cable assembly, and lighting solutions, and are recognized for our comprehensive range of services. Our commitment to quality, innovation, and genuine collaboration is reflected in everything we do—driven by a dedicated team that supports one another and grows together.

In this catalog, you'll discover a wide selection of connectors for virtually every application and industry. If you have any questions or need assistance, please don't hesitate to reach out. We're always happy to help.

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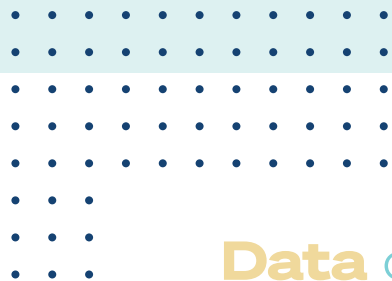
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Data connectors

400 Series USB



IP68, IP69K

Ø 19,1 mm

4, 5

Current max.*	1 A
Voltage max.	30 V AC, 42 V DC
Connection types	Cable, PCB
Interface	Mini A, Mini B, Mini AB

400 Series SMB



IP68, IP69K

Ø 19,1 mm

Current max.*	-
Voltage max.	-
Connection types	Cable, SMD
Interface	SMB

4000 Series USB



IP66, IP68, IP69K

Ø 19,6 mm

4, 5, 2×12

Current max.*	1 A, 5 A
Voltage max.	30 V AC, 42 V DC
Connection types	Cable
Interface	Micro-USB-B, USB-C

4000 Series LWL



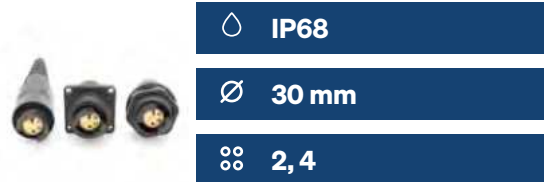
IP66, IP68, IP69K

Ø 19,6 mm

1

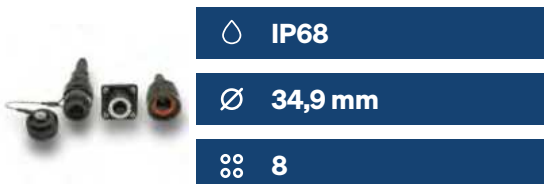
Current max.*	-
Voltage max.	-
Connection types	Cable
Interface	Simplex LC

5000 Series Expanded Beam



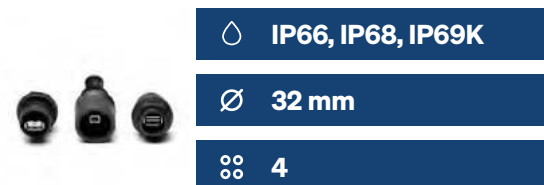
Current max.*	-
Voltage max.	-
Connection types	Cable
Interface	-

600 Series Ethernet



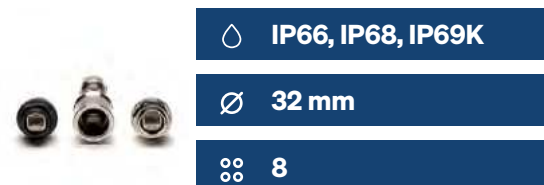
Current max.*	-
Voltage max.	-
Connection types	Crimp connection
Interface	RJ45 Cat 5e, RJ45 Cat 6a

6000 Series USB



Current max.*	1 A
Voltage max.	30 V AC
Connection types	Cable
Interface	USB 2.0

6000 Series Ethernet



Current max.*	350 mA
Voltage max.	57 V
Connection types	Crimp connection
Interface	RJ45 Cat 5e

* May vary depending on the number of poles



Plug connector Data

6000 Series LWL



☹ IP66, IP68, IP69K

Ø 32 mm

☹ 2

Current max.*

-

Voltage max.

-

Connection types

Cable

Interface

Duplex LC

Buccaneer Series USB



☹ IP68, IP69K

Ø 38,1 mm

☹ 4

Current max.*

1 A

Voltage max.

30 V AC

Connection types

Cable

Interface

USB 2.0

Buccaneer Series Ethernet



☹ IP68, IP69K

Ø 38,1 mm

☹ 8

Current max.*

1,5 A

Voltage max.

72 V

Connection types

Crimp connection, IDC

Interface

RJ45 Cat 5e, RJ45 Cat 6a,
RJ45 Cat 8

Buccaneer Series HDMI



☹ IP68, IP69K

Ø 38,1 mm

☹ 19

Current max.*

0,5 A

Voltage max.

30 V

Connection types

Cable

Interface

HDMI 2.1

SPE M12



🔒 **IP20, IP67**

Ø **20 mm**

⏏ **2**

Current max.*

4 A

Voltage max.

60 V

Connection types

Crimp connection, Circuit board connection, Cable

Interface

SPE

USB-C M12



🔒 **IP67**

Ø **20 mm**

⏏ **2×12**

Current max.*

1 A

Voltage max.

30 V

Connection types

USB headder connector, cable

Interface

USB-C 3.1

USB-A M20



🔒 **IP68**

Ø **20 mm**

⏏ **4, 5**

Current max.*

1 A

Voltage max.

30 V AC, 42 V DC

Connection types

Cable

Interface

USB-Typ-A 2.0, USB-Typ-A 3.1

Mini USB M12



🔒 **IP68**

Ø **19,1 mm**

⏏ **4, 5, 2×12**

Current max.*

1 A

Voltage max.

30 V AC, 42 V DC

Connection types

Cable

Interface

USB Mini B, USB-C 3.1

* May vary depending on the number of poles

Rev. 0 | Engelking reserves the right to change the technical data at any time and without prior notice.

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ENGELKING



Plug connector Power & Signal

400 Series



IP68, IP69K

Ø 19,1 mm

2, 3, 4, 6, 8, 10, 12

Current max.*

8 A

Voltage max.

250 V

Connection types

Crimp connection, solder connection, PCB

4000 Series



IP68

Ø 19,6 mm

2, 3, 4, 6, 8, 10, 12

Current max.*

13 A

Voltage max.

600 V

Connection types

Crimp connection, solder connection, PCB

7000 Series



IP66, IP68, IP69K

Ø 42 mm

2, 3, 6, 10, 32

Current max.*

25 A

Voltage max.

600 V

Connection types

Crimp connection, solder connection, screw connection

6000 Series



IP66, IP68, IP69K

Ø 32 mm

2, 3, 4, 8, 16, 22

Current max.*

16 A

Voltage max.

277 V

Connection types

Crimp connection, solder connection, screw connection

Buccaneer Series



IP68, IP69K

Ø 38,1 mm

2, 3, 4, 6, 7, 9, 12, 25

Current max.*

12 A

Voltage max.

277 V

Connection types

Crimp connection, solder connection, screw connection

900 Series



💧 **IP68, IP69K**

Ø **58 mm**

⊞ **2, 3, 4, 5, 7, 10**

Current max.*	32 A
Voltage max.	600 V
Connection types	Screw connection

900 Series ATEX



💧 **IP68**

Ø **58 mm**

⊞ **2, 3, 4, 5, 7, 10**

Current max.	18 A
Voltage max.	600 V
Connection types	Screw connection

9000 Series



💧 **IP68**

Ø **72,8 mm**

⊞ **2, 4, 6, 8, 11**

Current max.	225 A
Voltage max.	1250 V
Connection types	Crimp connection

TH381



💧 **IP66, IP68, IP69K**

Ø **14 mm**

⊞ **2, 3**

Current max.	10 A
Voltage max.	500 V
Connection types	Screw connection

TH389



💧 **IP66, IP68, IP69K**

Ø **23 mm**

⊞ **3, 4, 5**

Current max.	17,5 A
Voltage max.	500 V
Connection types	Screw connection, lever terminal

* May vary depending on the number of poles



Plug connector Power & Signal

TH389U



IP66, IP68, IP69K

Ø 23 mm

3, 4

Current max.	25 A
Voltage max.	630 V
Connection types	Screw connection

TH387



IP66, IP68

Ø 23 mm

2, 3, 4, 5

Current max.	17,5 A
Voltage max.	500 V
Connection types	Crimp connection, screw connection, piercing screw connector

TH387U



IP66, IP68

Ø 23 mm

3, 4, 5

Current max.	17,5 A
Voltage max.	500 V
Connection types	Screw connection

TH384/385/386



IP66, IP67, IP68

Ø 27 mm

2, 3, 4, 5

Current max.	16 A
Voltage max.	400 V
Connection types	Crimp connection, screw connection, piercing screw connector

TH405/406



IP66, IP68, IP69K

Ø 38 mm

2, 3, 5, 6, 8

Current max.	25 A
Voltage max.	630 V
Connection types	Crimp connection, screw connection, piercing screw connector

TH405U/406U



IP66, IP68

Ø 38 mm

2, 3, 5

Current max.	41 A
Voltage max.	500 V
Connection types	Screw connection

TH408/409



IP68, IP69K

Ø 36,5 mm

2, 3, 5, 6

Current max.	25 A
Voltage max.	400 V
Connection types	Crimp connection, screw connection, piercing screw connector

TH404



IP65

Ø 42 mm

2, 3, 5, 6

Current max.	25 A
Voltage max.	400 V
Connection types	Crimp connection, screw connection, piercing screw connector

Charging plug



IP65, IP66

Ø 22,2 mm

2

Current max.	4 A
Voltage max.	48 V DC
Connection types	Cable

Quicklock

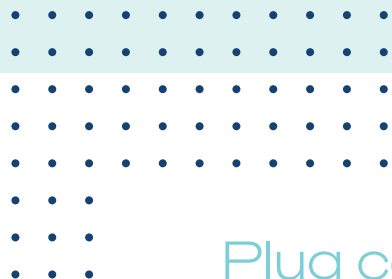


IP67

Ø 13 mm

6

Current max.	2 A
Voltage max.	30 V DC
Connection types	Cable



Plug connector Automation

M5



IP67, IP68

Ø 6,5 mm

3, 4

Current max.

1 A

Voltage max.

60 V

Connection types

Solder connection, PCB, cable

Coding

A

M8



IP67, IP68

Ø 10 mm

3, 4, 5, 6, 8

Current max.

3 A

Voltage max.

60 V

Connection types

Screw connection, solder connection, PCB, cable

Coding

A, B, D, P

M9



IP67, IP68

Ø 14 mm

2, 3, 4, 5, 7, 8

Current max.

4 A

Voltage max.

125 V

Connection types

Solder connection, cable

Coding

A

M12



IP68

Ø 20 mm

3, 4, 5, 8, 12, 17, 2+PE,
3+PE, 4+PE, 5+PE

Current max.

16 A

Voltage max.

630 V

Connection types

Screw connection, solder connection, PCB, cable

Interface

Ethernet, Profibus, CANopen, Interbus, Profinet, EtherCAT, Sercos, SFC, CC-Link, Varan

Coding

A, B, D, X, S, T, L, K, E, F, M, Y

M16



🔒 **IP67, IP68**

Ø **18,5 mm**

⊞ **2, 3, 4, 5, 6, 7, 8, 12,
14, 16, 19, 24**

Current max. 5 A

Voltage max. 100 V

Connection types Solder connection, cable

Coding A

M17



🔒 **IP67**

Ø **21,5 mm**

⊞ **3+PE, 5+PE, 6+PE,
7+PE, 5+3+PE**

Current max. 25 A

Voltage max. 630 V

Connection types Crimp connection

Coding A

M23



🔒 **IP67, IP68**

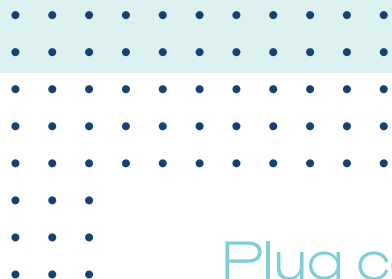
Ø **26 mm**

⊞ **6, 7, 8+1, 6+3, 12, 16,
17, 16+3**

Current max. 20 A

Voltage max. 250 V

Connection types Crimp connection, solder connection, cable



Plug connector

Cable connectors & junction boxes

TH390



IP68

Ø 32 mm

2, 3

Current max.	32 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	2, 3

TH399



IP68

Ø 32 mm

2, 3, 4, 5, 6

Current max.	32 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	3

TH400



IP66, IP68, IP69K

Ø 40 mm

2, 3, 4, 5, 6

Current max.	41 A
Voltage max.	690 V
Connection types	Screw connection, piercing screw connector
Number of connections	2

TH402



IP68

Ø 32 mm

2, 3, 4, 5, 6

Current max.	32 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	3

TH391



💧 **IP68, IP69K**

Ø **23 mm**

⚡ **2, 3, 4, 5**

Current max.	32 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	2

TH394



💧 **IP66, IP67, IP68**

Ø **30 mm, 35 mm**

⚡ **3, 5**

Current max.	16 A
Voltage max.	400 V
Connection types	spring terminal connector
Number of connections	2

TH392



💧 **IP68**

Ø

⚡ **4**

Current max.	17,5 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	3, 4

TH200



💧 **IP67**

Ø

⚡ **3, 5**

Current max.	16 A
Voltage max.	250 V
Connection types	Screw connection, piercing screw connector
Number of connections	3



Plug connector

Cable connectors & junction boxes

TH209



💧 IP66, IP68

Ø

⌘ 3, 4, 5, 8

Current max.	24 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	3, 4

TH211



💧 IP65

Ø

⌘ 3, 4, 5

Current max.	24 A
Voltage max.	450 V
Connection types	Screw connection, piercing screw connector
Number of connections	3

TH623



💧 IP66, IP68

Ø

⌘ 2, 3

Current max.	16 A
Voltage max.	400 V
Connection types	Screw connection, piercing screw connector
Number of connections	4

TH631



💧 IP65

Ø

⌘ 2, 3, 5, 6

Current max.	25 A
Voltage max.	400 V
Connection types	Screw connection, piercing screw connector
Number of connections	3

TH212



💧 IP20, IP66

Number of connections	5, 6, 7
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TH624



IP66, IP68

Ø

4, 5

Current max.	17,5 A
Voltage max.	600 V
Connection types	Screw connection
Number of connections	4

TH625



IP66, IP68

Ø

2, 3

Current max.	10 A
Voltage max.	500 V
Connection types	Screw connection
Number of connections	3, 4

TH629



IP66, IP68

Ø

3, 4

Current max.	25 A
Voltage max.	630 V
Connection types	Screw connection
Number of connections	3

Buccaneer Series Cable Joiner



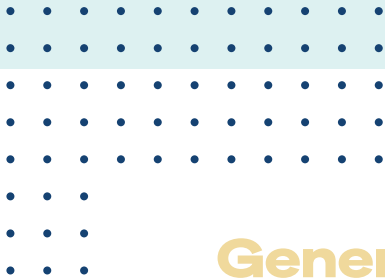
IP68, IP69K

Ø 38,1 mm

3, 4, 6, 8

Current max.*	16 A
Voltage max.	250 V
Anschlussarten	Screw connection, crimp connection, IDC
Connection types	2
Number of connections	RJ45 Cat 5e, RJ45 Cat 6a, RJ45 Cat 8

*May vary depending on the number of poles



General information

Legend

 IP68	IP protection class
 20mm	Diameter
 4	Number of poles

IP protection class | IP65 - IP69K

The IP protection classes are indicated by the abbreviation “IP” (= Ingress Protection) and two digits. The first digit defines the degree of protection against contact and the ingress of solids, while the second digit provides information about protection against moisture and water.

Reference number 1

	Protection against foreign objects	Protection against contact
6	Dustproof	Complete protection against contact

Reference number 2

	Protection against water
5	Protection against water jets from any angle
6	Protection against strong jets of water from any angle and strong waves
7	Protection against temporary immersion in water (30 minutes at a depth of 1 m)
8	Protection against permanent immersion in water (> 30 minutes at a depth of > 1 m, exact details required)
9K	Protection against water during high-pressure or steam jet cleaning (incl. high temperatures)



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