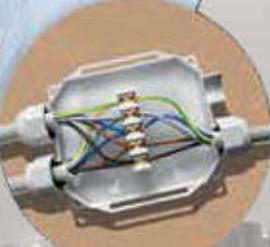
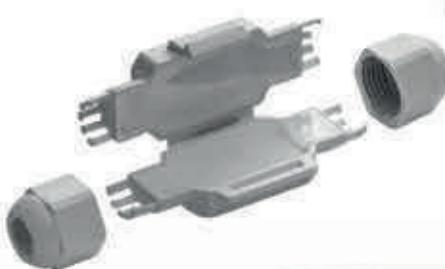




SOLUTIONS FOR CRITICAL ELECTRICAL CONNECTIONS



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Techno SRL is a forerunner in designing innovative solutions in the waterproof electrical connectors sector. We are their partners in India because we share a common vision: To ensure safety and trustworthiness in the electrical connectors sector.

Techno's vast range of connection systems which includes junction boxes, plug socket connectors, panel mounted connectors is available at your disposal for varied usage.





IP68

SF
Silicon Free

EK03

CE

Pb **RoHS**
Lead Free RoHS Compliant

S

HF
Halogen Free

GENERAL DESCRIPTION

Types of installation

Type of product (Family)

Product name (Series)

Product configuration

Type of Fixation

Colour

Outer dimension

Joint connector (re-usable/re-accessible)

TEETUBE®- In-line and junction circular connectors IP68/IP69K

TH391- In-line circular mini-joint connector tipo "I" IP68

In-line joint connector

With quick-fix mounting clip

Black (Plastic components)- Techno green (Rubber components)

Φ 23 mm x 68 mm

ELECTRICAL CHARACTERISTICS

Number of poles

3- 4- 5

Contact marking

1- 3

Type of connection

screw (M3- max. 0.5 Nm)

Operating current

17.5Amps

Operating voltage

max. 450V AC

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP66/IP68 (30m,3h)

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

0.5 square mm - 4.0 square mm

Wire cross-section min. - max. (Solid cable)

0.5 square mm - 4.0 square mm

MATERIAL CHARACTERISTICS

Connector housing

PA66 GF UL94 VO GWT 960°C

Cable gland

PA66 UL94 V2 GWT 850°C

Sealing

TPE-S

Grommets

TPE-S

Contacts

CuZn (silver plated)

Screws

Steel (rivestimento Zinco)

Impulse withstand category

II

Pollution degree

2

Material properties

Halogen Free- Silicone Free

T marking

T 125°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 175



TH.400

TH400 - In-line circular joint connector type "I" IP68

IP68



GENERAL DESCRIPTION

Types of installation

Joint connector (re-usable/re-accessible)

Type of product (Family)

TEETUBE®- In-line and junction circular connectors IP68/IP69K

Product name (Series)

TH400- Giunto circolare di connessione lineare tipo "I" IP68

Product configuration

In-line joint connector

Type of Fixation

With quick-fix mounting clip

Colour

Black (Plastic components)- Techno green (Rubber components)

Outer dimension

Φ 32 mm x 130 mm

ELECTRICAL CHARACTERISTICS

Number of poles

2- 4- 5- 6

Contact marking

1- 2- 3- 4

Type of connection

screw (M3- max. 0.5 Nm)

Operating current

max. 41A

Operating voltage

max. 750V AC

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68 (50m,1h)/IP69K

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

2.5 square mm - 6.0 square mm

Wire cross-section min. - max. (Solid cable)

2.5 square mm - 6.0 square mm

Cable diameter min. - max.

7mm to 20mm

MATERIAL CHARACTERISTICS

Body

PA66 GF UL94 V0 GWT 960°C

Connector housing

PA66 GF UL94 V0 GWT 960°C

Cable gland

PA66 UL94 V2 GWT 850°C

Sealing

Silicone

Grommets

TPE

Contacts

CuZn (nickel plated)

Screws

Steel (rivestimento Zinco)

Material properties

Halogen Free

T marking

T 85°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 250



TECHNOLOGY & INNOVATION

TH.392

TH392 - 1 in 3 out current distributor connector type "H" IP68

IP68

SF
Silicon Free

K03

CE

Pb
RoHS
Directive

S
Sag Free

HF
Halogen Free

GENERAL DESCRIPTION

Types of installation

Type of product (Family)

Product name (Series)

Product configuration

Type of Fixation

Colour

Outer dimension

Joint connector (re-usable/re-accessible)

TEETUBE®- In-line and junction circular connectors IP68/IP69K

TH392- Circular mini-junction connector 4 vie tipo "H" IP68

In-line joint connector

With quick-fix mounting clip

Black (Plastic components)- Techno green (Rubber components)

28 mm x 54 mm x 80 mm

ELECTRICAL CHARACTERISTICS

Number of poles

4

Contact marking

1- 2- 3- 4(E)

Type of connection

screw (M3- max. 0.5 Nm)

Operating current

max. 17.5A

Operating voltage

max. 450V AC

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68 (30m,2h)

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

0.5 square mm - 4.0 square mm

Wire cross-section min. - max. (Solid cable)

0.5 square mm - 4.0 square mm

Cable diameter min. - max.

7.0 mm- 12.0 mm (main cable) / 7.0 mm- 12.0 mm (branch cable)

MATERIAL CHARACTERISTICS

Connector housing

PA68 UL94 V0 GWT 960°

Cable gland

PA66 UL94 V2 GWT 850°C

Sealing

TPE

Grommets

TPE

Contacts

CuZn (nickel plated)

Screws

Steel (rivestimento Zinco)

Material properties

Halogen Free- Silicone Free

T marking

T 85°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 250

INDUSTRY STANDARDS

Standard number

EN 60998-1:2004



TH.399

TH399 - Circular junction connector 3 ways type "Y" IP68



IP68



CE

RoHS
2015/85/EU

GENERAL DESCRIPTION

Types of installation

Type of product (Family)

Product name (Series)

Product configuration

Type of Fixation

Colour

Outer dimension

Joint connector (re-usable/re-accessible)

TEETUBE®- In-line and junction circular connectors IP68/IP69K

TH399- Giunto circolare di derivazione a 3 vie tipo "Y" IP68

In-line joint connector

With quick-fix mounting clip

Black (Plastic components)- Techno green (Rubber components)

Φ 32 mm x 63 mm x 180 mm

ELECTRICAL CHARACTERISTICS

Number of poles

3 - 4 - 5 - 6

Contact marking

1- 2- L- N- E

Type of connection

screw (M3- max. 0.5 Nm)

Operating current

max. 32A

Operating voltage

max. 450V AC

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68 (30m,2h)

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

0.5 square mm - 4.0 square mm

Wire cross-section min. - max. (Solid cable)

0.5 square mm - 4.0 square mm

Cable diameter min. - max.

7.0 mm- 12.0 mm (main cable) / 7.0 mm- 12.0 mm (branch cable)

MATERIAL CHARACTERISTICS

Connector housing

PA68 UL94 V0 GWT 960°

Cable gland

PA66 UL94 V2 GWT 850°C

Sealing

TPE

Grommets

TPE

Contacts

CuZn (nickel plated)

Screws

Steel (rivestimento Zinco)

Material properties

Halogen Free- Silicone Free

T marking

T 85°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 250

INDUSTRY STANDARDS

Standard number

EN 60998-1:2004



CE

IP68



GENERAL DESCRIPTION

Types of installation

Type of product (Family)

Product name (Series)

Product configuration

Type of Fixation

Colour

Outer dimension

Joint connector (re-usable/re-accessible)

TEETUBE®- In-line and junction circular connectors IP68/IP69K

TH402- Giunto circolare di derivazione a 3 vie tipo "T" IP68

In-line joint connector

With quick-fix mounting clip

Black (Plastic components)- Techno green (Rubber components)

Φ 32 mm x 91 mm x 121 mm

ELECTRICAL CHARACTERISTICS

Number of poles

3 - 4 - 5 - 6

Contact marking

1- 2- 3- 4

Type of connection

screw (M3- max. 0.5 Nm)

Operating current

max. 32A

Operating voltage

max. 450V AC

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68 (20m,1h)

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

1.5 square mm - 4.0 square mm

Wire cross-section min. - max. (Solid cable)

1.5 square mm - 4.0 square mm

Cable diameter min. - max.

7.0 mm- 13.5 mm (main cable) / 7.0 mm- 13.5 mm (branch cable)

MATERIAL CHARACTERISTICS

Body

PA66 GF UL94 V0 GWT 960°C

Connector housing

PA66 GF UL94 V0 GWT 960°C

Cable gland

PA66 UL94 V2 GWT 850°C

Sealing

Silicone

Grommets

TPE

Contacts

CuZn (nickel plated)

Screws

Steel (rivestimento Zinco)

Material properties

Halogen Free

T marking

T 85°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 250



TH.219

TH219 - Junction box 4 ways type "H" IP68

IP68



The TH219 is a multifunctional junction box which can be used for 1 in 3 out applications. The co moulded lining on the lid of the box is designed to ensure that there is no seepage into the box. With a height of just 28mm, it is compact enough small tight places.

A wide range of compatible grommets are available to customise the product as per customer's needs.

GENERAL DESCRIPTION

Types of installation

Joint connector (re-usable/re-accessible)

Type of product (Family)

TEEBOX®- IP68 Junction boxes with terminal blocks

Product name (Series)

TH219- Junction box 4 vie tipo "H" IP68

Product configuration

Junction box for resin filling (without terminal block)

Type of Fixation

With fixing screws on flat surface

Colour

Black (Plastic components)- Techno green (Rubber components)

Outer dimension

108 mm x 65 mm x 28 mm

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68 (5m,3h)

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°CEN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Cable diameter min. - max.

7.0 mm- 14.0 mm (main cable) / 7.0 mm- 14.0 mm (branch cable)

MATERIAL CHARACTERISTICS

Body

PA66 UL94 V2 GWT 850°C

Sealing

SEBS

Grommets

TPE

Screws

Steel inox

Material properties

Halogen Free- Silicone Free

T marking

T 85°C

Operating temperature range

-40°C/+125°C

GENERAL DESCRIPTION

Standard number

EN 60529:1991; EN60998-1:2004



IP68 **IP66**



GENERAL DESCRIPTION

Types of installation	Plug and Socket connector
Type of product (Family)	TEEPLUG®- IP66/IP68 Plug&Socket circular connectors
Product name (Series)	TH387- mini-Plug&Socket connector IP66/IP68
Product configuration	Panel-mounted plug connector with fixing nut
Thread	M25
Panel thickness min. - max.	1.0 mm- 7.0 mm
Colour	Black (Plastic components)- Techno green (Rubber components)
Outer dimension	Φ 23 mm x (51 ÷ 66 mm) (when plug-socket matched)

ELECTRICAL CHARACTERISTICS

Number of poles	3 - 4 - 5
Contact marking	1- 2- 3- 4(E)- 5
Type of connection	screw (M2- max. 0.2 Nm)
Operating current	max. 17.5A
Operating voltage	max. 450V AC
Impulse withstand voltage	4KV

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)	IP66/IP68 (30m,3h)
Corrosion resistance	Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000, Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)	0.5 square mm - 4.0 square mm
Wire cross-section min. - max. (Solid cable)	0.5 square mm - 4.0 square mm

MATERIAL CHARACTERISTICS

Connector housing	PA66 GF UL94 V0 GWT 960°C
Cable gland	PA66 UL94 V2 GWT 850°C
Sealing	TPE-S
Grommets	TPE-S
Contacts	CuZn (silver plated)
Screws	Steel (rivestimento Zinco)
Impulse withstand category	II
Pollution degree	2
Material properties	Halogen Free- Silicone Free
T marking	T 125°C
Operating temperature range	-40°C / +125°C
Proof Tracking Index (PTI)	PTI 175



IK06 IP69K IP68



GENERAL DESCRIPTION

Types of installation

Plug and Socket connector

Type of product (Family)

TEEPLUG®- IP68/IP69K Plug&Socket circular connectors

Product name (Series)

TH381- micro-Plug&Socket connector IP68/IP69K

Product configuration

Socket connector (cable-to-cable)

Type of Fixation

With fixing screws on flat surface

Colour

Black (Plastic components)- Techno green (Rubber components)

Outer dimension

Φ 14 mm x 90 mm (when plug-socket matched)

ELECTRICAL CHARACTERISTICS

Number of poles

2 - 3

Contact marking

1- 2

Type of connection

screw (M2- max. 0.2 Nm)

Operating current

max. 10A

Operating voltage

max. 400V AC/DC

Impulse withstand voltage

4KV

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68/IP69K

Protection against impact (IK)

IK06

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000,

Connection and disconnection cycles

Test Ka (168h)

100 cycles

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

0.25 square mm - 1.0 square mm

Wire cross-section min. - max. (Solid cable)

0.25 square mm - 1.0 square mm

Cable diameter min. - max.

5.8 mm- 6.9 mm

MATERIAL CHARACTERISTICS

Connector housing

PA66 GF UL94 V0 (f1) GWT 960°C

Cable gland

PA66 GF UL94 V2 (f1) GWT 850°C

Sealing

TPE-S

Grommets

TPE-S

Contacts

CuZn (silver plated)

Screws

Steel (rivestimento Zinco)

Impulse withstand category

II

Pollution degree

2

Material properties

Halogen Free- Silicone Free

T marking

T 125°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 175



IP68



GENERAL DESCRIPTION

Types of installation

Type of product (Family)

Product name (Series)

Product configuration

Type of Fixation

Colour

Outer dimension

Plug and Socket connector

TEEPLUG®- IP68 Plug&Socket circular connectors

TH405- Plug&Socket connector IP68

Plug+Socket connector (cable-to-cable)

With quick-fix mounting clip

Black (Plastic components)- Techno green (Rubber components)

Φ 36.5 mm x 130 mm (when plug-socket matched)

ELECTRICAL CHARACTERISTICS

Number of poles

3 - 4 - 5 - 6 - 8

Contact marking

1- 2- 3- E- L- N

Type of connection

screw (M3- max. 0.5 Nm)

Operating current

10 to 32 Amps

Operating voltage

max. 400V AC

Impulse withstand voltage

6KV

MECHANICAL CHARACTERISTICS

Protection against solid/water (IP)

IP68 (10m,1h)

Protection against impact (IK)

IK08

Corrosion resistance

Salt mist, 1.000 ore, 5% salt solutions, 35°C EN60068-2-11:2000,

Test Ka (168h)

CABLE CHARACTERISTICS

Wire cross-section min. - max. (Stranded cable)

0.5 square mm - 4.0 square mm

Wire cross-section min. - max. (Solid cable)

0.5 square mm - 4.0 square mm

Cable diameter min. - max.

6.0 mm- 14.0 mm

MATERIAL CHARACTERISTICS

Body

PA66 UL94 V2 GWT 850°C

Connector housing

PA66 GF UL94 V0 GWT 960°C

Cable gland

PA66 UL94 V2 GWT 850°C

Sealing

TPE

Grommets

TPE

Contacts

CuZn (nickel plated)

Screws

Steel (rivestimento Zinco)

Impulse withstand category

II

Pollution degree

2

Material properties

Halogen Free- Silicone Free

T marking

T 125°C

Operating temperature range

-40°C / +125°C

Proof Tracking Index (PTI)

PTI 175

GEL BASED SOLUTIONS

Passion for design and innovation has allowed Raytech to evolve and adapt to the needs of constantly expanding national and international market standards, as well as to meet the challenge of satisfying and surprising end users with new or improved products extremely rapidly, without ever skimping on the same scrupulous quality which has always distinguished them in the production field.

With the flexibility of the robust systems provided by Raytech, your connections will never be the same.





The revolutionary mini accessories with 3 entrances, pre-filled with gel and suitable for submersible installations (IPX8).

Designed in 3 dimensions to rapidly insulate and seal the most commonly used connectors.

The 3 entrances not only guarantee the extreme flexibility in the range of these products by making possible triple configurations but also by the housing accepting a wide variety of connectors.

- Extremely versatile – Ready to use – Re-enterable
- For rigid or flexible insulated wires up to 4 mm²
- Pre-filled with gel, non toxic and no shelf life
- Small compact and robust
- Halogen free
- UV resistant

Gel

Degree of protection

Operating temperature

Installation temperature

UL 94-HB

IPX8 (*IMQ Officially Tested*)

90°

-40°C / +50°C



Configuration examples

Full Submersible



Can Be used Underground



IPX8 | **IMQ**
OFFICIALLY
TESTED

Happy 0

Product

Happy 0

Happy 0 Box 12

AxBxC (mm)

41 x 28 x 19



IDEAL FOR (or similar):



2x 2.5 mm² 2x 1.5 mm² 2x 2.5 mm² 3x 2.5 mm² 2x 4 mm² 3x 4 mm²

Happy 1

Product

Happy 1

Happy 1 Box 10

AxBxC (mm)

45 x 37 x 24



IDEAL FOR (or similar):



3x 2.55 mm² 3x 2.5mm² 3x 2.5mm² 2x + 2x 2.5mm² 5x 2.5 mm²

3x 4 mm² 2x + 2x 4 mm² 5 x 4mm²

Happy 2

Product

Happy 2

Happy 2 Box 7

AxBxC (mm)

53 x 39 x 24



IDEAL FOR (or similar):



3x 4 mm² 3x 4 mm² 2x + 2x + 2x 2.5mm² 2x + 2x + 2x 4mm²



A simple way to bring indoor connectors outdoors

Pre-filled gel accessories for sealing, protecting and making safe electrical connections

- To put household systems in order
- For civil and industrial connections
- Also for submerged use
- Non-toxic and with no shelf life
- Versatile and ready to use
- Designed with dimensions suitable for the most commonly used connectors

Gel
Degree of protection
Operating temperature
Installation temperature

UL 94-HB
IPX8
90°
-40°C / +50°C



Full Submersible



Can Be used Underground



IPX8
OFFICIALLY
TESTED

IMQ

Kelvin



Joule



Isaac



Pascal



Isaac Product

AxBxC (mm)

Isaac 4	
Isaac 4 P30	30 x 27 x 23
Isaac 4 MP*	

IDEAL FOR (or similar):



Joule Product

AxBxC (mm)

Joule	
JouleMP*	33 x 52 x 26

IDEAL FOR (or similar):



Pascal Product

AxBxC (mm)

Pascal 6	
Pascal 6 P15	36 x 37 x 26
Pascal 6 MP*	

IDEAL FOR (or similar):



Watt Product

AxBxC (mm)

Watt	
Watt P15	30 x 42 x 26
Watt MP*	

IDEAL FOR (or similar):



Kelvin Product

AxBxC (mm)

Kelvin	
Kelvin P9	52 x 53 x 29
Kelvin MP*	

IDEAL FOR (or similar):





PRE-FILLED WITH GEL

for free connections

Rapid Joint IP68

Radial closing gel pre-filled joint for extruded insulation cables up to 1 kV

Primary insulation, consisting of a cross-linked polymer gel, and the exceptionally robust insulating plastic casing render Class 2 joints in accordance with the definitions contained in standard CEI 64-8. The joint has been tested in accordance with the main international specifications, with repeated flexing and torsion tests and immersion in water, and has been declared as conforming to the mechanical, electrical and sealing specifications required for plastic cable accessories. The joint and its components have an unlimited shelf life, are chemically inert and therefore completely safe. Conductor connections are re-enterable even after long periods of operation. Packaged with self-extinguishing material, flame retardant, for cables at 90°C working temperature. The radial closing system facilitates joint application, making them re-enterable only by means of a tool.

- For straight connections (in line)
- For multi core cables of up to 5 cores
- With suitable spacers
- For all types of application, including submersible
- Wide range of cable formations
- Re-enterable only by means of a tool
- Suitable for 3 core crossing
- Non-toxic, with no expiry date

**Electrical performance:**

CEI EN 50393 • CEI 20-33
(with testing under water head and water between the cable cores)
Class 2 in accordance with CEI 64-8.

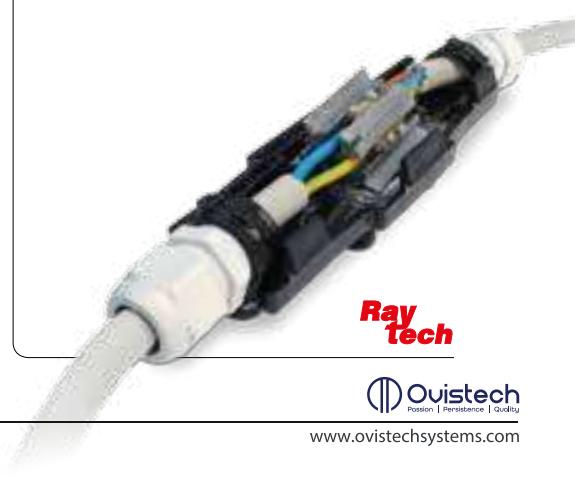
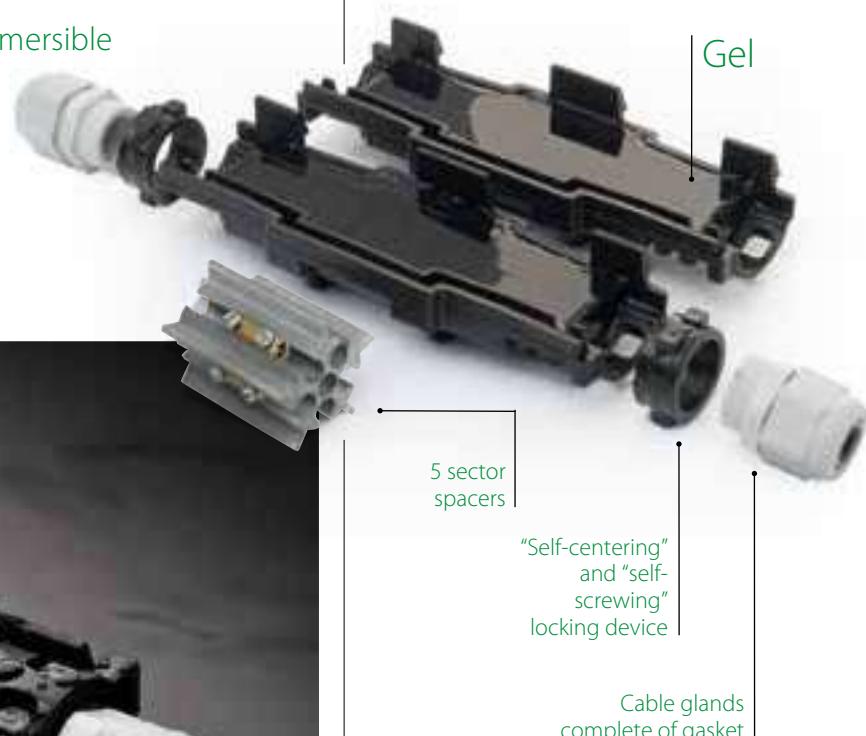
No flame propagation:

CEI 20-35 • IEC 60332-1 • HD405-1
(as applicable)
Low smoke and toxic and corrosive gas emissions

Gel: UL 94-HB**Casing mix:** UL 94-V2**Degree of protection:** IP68

Operating temperature

Installation temperature:
-40°C / +50°C



**Ray
Tech**

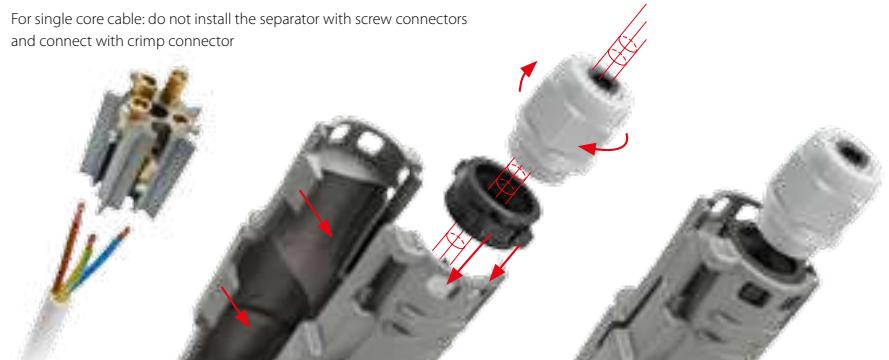


Rapid Joint

Straight joints for 0.6/1 kV extruded cables complete with separator and screw connectors

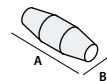
Product	Configuration IP68			Configuration IPX8		
	Section mm ²	Formation n°	Ø cable mm	Section mm ²	Formation n°	Ø cable mm max
Rapid Joint L1,5-IP68	4 - 25	●		1,5 - 50	●	
	1,5 - 6	●●		1,5 - 6	●●	
	1,5 - 2,5	●○	8 - 13	1,5 - 6	●○	20,5
	1,5	●○		1,5 - 6	●○	
	1,5	●○		1,5 - 6	●○	
Rapid Joint L6-IP68	25 - 70	●		2,5 - 150	●	
	1,5 - 10	●●		2,5 - 10	●●	
	1,5 - 6	●○	12 - 18	2,5 - 10	●○	24
	1,5 - 6	●○		2,5 - 10	●○	
	1,5 - 6	●○		2,5 - 10	●○	
Rapid Joint L10-IP68	70 - 95	●		120 - 240	●	
	10 - 16	●●		4 - 25	●●	
	6 - 10	●○	16 - 20	4 - 25	●○	31
	4 - 10	●○		4 - 25	●○	
	4 - 10	●○		4 - 25	●○	

For single core cable: do not install the separator with screw connectors and connect with crimp connector



Rapid Joint

IPX8 straight joints for 0,6/1 kV extruded cable



Product	Cable formation and conductor cross sections (n° x mm ²)				With optical fibre separator 4x	Dimensions A x B (mm)
	1x	2x	3x	4x		
Rapid Joint L6	1,5 - 50	1,5 - 6	1,5 - 6	1,5 - 6	-	105 x 55
Rapid Joint L10	2,5 - 150	2,5 - 16	2,5 - 10	2,5 - 10	-	180 x 60
Rapid Joint L25	120 - 240	2,5 - 35	2,5 - 25	2,5 - 25	-	210 x 65
Rapid Joint L95	185 - 400	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100
Rapid Joint L 25	1x	2x	3x	4x	(mm)	
	120 - 240	16 - 35	10 - 25	10 - 25		
	185 - 400	35 - 95	25 - 70	25 - 70		
Rapid Joint L 95	1x	2x	3x	4x	16 - 50	320 x 100
	120 - 240	16 - 35	10 - 25	10 - 25		

Ray Tech



Rapid Joint S/ARM

For screened or tape or wire armoured cables

Product	Cable formation and conductor cross sections (n° x mm ²)				With optical fibre separator 4x	Dimensions A x B (mm)
	1x	2x	3x	4x		
Rapid Joint L 10-S	2,5 - 120	2,5 - 10	2,5 - 10	2,5 - 10	-	180 x 60
Rapid Joint L 25-S	120 - 185	16 - 25	10 - 25	10 - 25	-	210 x 65
Rapid Joint L 95-S	240 - 400	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100



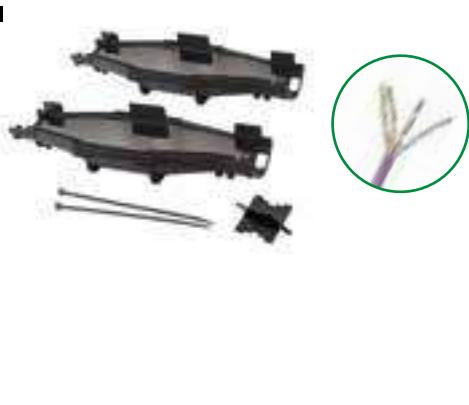
Joint supplied with armour continuity device

Product	Cable formation and conductor cross sections (n° x mm ²)			4x	(mm)
	2x	3x	4x		
Rapid Joint L 10-ARM	2,5 - 10	2,5 - 10	2,5 - 10	-	180 x 60
Rapid Joint L 25-ARM	16 - 25	10 - 25	10 - 25	-	210 x 65
Rapid Joint L 95-ARM	35 - 95	25 - 70	25 - 70	16 - 50	320 x 100

Rapid Joint LS

For signalling and control cables

Product	Conductor cross sections (mm ²)	Cable formation (n° conductors)								Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	
Rapid Joint-LS1	1,5 2,5	• •	• •	• •	• •	• •	• •	• •	• •	180 x 60
Rapid Joint-LS2	1,5 2,5				• •	• •	• •	• •	• •	210 x 65
Rapid Joint-LS3	1,5 2,5					• •	• •	• •	• •	320 x 100



Rapid Joint T

Straight joints for telephone cables

UNscreened Product	SCREENED Product	N° pairs for conductor cross sections (n° x mm ²)	Dimensions A x B (mm)
Rapid Joint-T26	Rapid Joint-TS26	(1 - 26) x (0,5 - 0,6)	180 x 60
Rapid Joint-T61	Rapid Joint-TS61	(30 + 1 - 64 + 1) x (0,5 - 0,6)	210 x 65
Rapid Joint-T101	Rapid Joint-TS101	(60 + 1 - 100 + 1) x (0,5 - 0,6)	320 x 100



Rapid Joint MT

Straight joints for medium voltage extruded insulation cables for public lighting

Product	Voltage (kV)	Cable formation and conductor cross sections (n° x mm ²)	Dimensions A x B (mm)
Rapid Joint MT1	3	1 x 10 - 150	210 x 65
Rapid Joint MT2	3	1 x 95 - 300	320 x 100



To be used with RG7H1R 1.8/3 kV cable, or 6/10 kV operated at 3 kV.

Ray Tech



Range of fast gel pre-filled straight or branch type joints for 0.6/1 kV multi core cables of up to 5 conductors.

The combination of the primary insulation in a cross-linked polymer gel and the highly robust insulating plastic case makes this a Class 2 joint defined by CEI 64-8. The joint has been tested in accordance with the main international specifications, with repeated flexing and torsion tests and immersion in water, it has been declared as conforming to the mechanical, electrical and sealing specifications required for plastic cable accessories. The joint and its components have an unlimited shelf life, they are chemically inert and therefore completely safe; the connections are re-entrant even after long working periods. Made of self-extinguishing components the joint is flame retardant. For cables at 90°C working temperature.

- Complete with isolated terminal blocks
- For straight and branch connections
- For all types of application, including submersible
- Re-accessible and with no shelf life
- Flame retardant
- Non toxic and safe

Electrical performance:

No flame propagation

Gel

Compound wrap

Operating temperature

Installation temperature

CEI EN 50393 (with testing under water head and water between the cable cores) Class 2 in accordance with CEI 64-8

CEI 20-35 • IEC 60332-1 • HD405-1 (as applicable)

Low smoke and toxic and corrosive gas emissions

UL 94-HB

UL 94-V2

90°

-40°C / +50°C



**IPX8
OFFICIALLY
TESTED** | **IMQ**

Product	Cable formation and conductor cross sections (n°xmm ²)				\emptyset max cables (mm)	AxBxC (mm)	
	Straight Connections in line	Branch connections T	Branch connections B				
Super Clik 0	3 x 1,5- 6	3 x 1,5- 4	3 x 1,5- 2,5		14	95 x 43 x 28	

T : Through cable - B : Branch cable

Product	Cable formation and conductor cross sections (n°xmm ²)				\emptyset max cables (mm)	AxBxC (mm)	
	Straight Connections in line	Branch connections T	Branch connections B				
Super Clik 1	2 x 1,5- 6 3 x 1,5- 6 4 x 1,5- 6 5 x 1,5- 6	2 x 4 3 x 4 4 x 4 5 x 4	2 x 2,5 3 x 2,5 4 x 2,5 5 x 2,5		20,5	150 x 56 x 30	

T : Through cable - B : Branch cable

Product	Cable formation and conductor cross sections (n°xmm ²)				\emptyset max cables (mm)	AxBxC (mm)	
	Straight Connections in line	Branch connections T	Branch connections B				
Super Clik 1	2 x 4- 16 3 x 4- 16 4 x 4- 16 5 x 4- 16	2 x 10 3 x 10 4 x 10 5 x 10	2 x 6 3 x 6 4 x 6 5 x 6		30	220 x 85 x 46	

T : Through cable - B : Branch cable

Product	Cable formation and conductor cross sections (n°xmm ²)				\emptyset max cables (mm)	AxBxC (mm)	
	Straight Connections in line	Branch connections T	Branch connections B				
Super Clik 3		2 x 4-25 3 x 4-25 4 x 4-25	2 x 1,5- 16 3 x 1,5- 16 4 x 1,5- 16		30	220 x 85 x 46	

T : Through cable - B : Branch cable

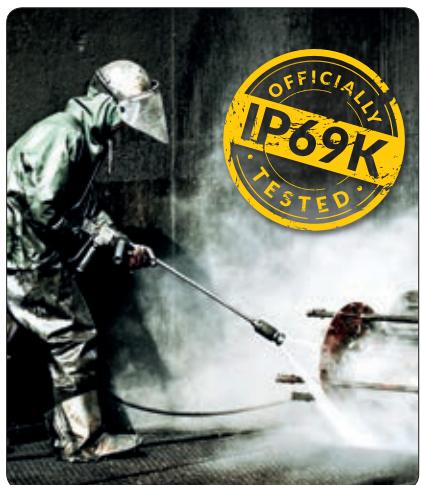
**Ray
tech New****Electrical performance:**CEI EN 50393
as applicable**Gel:** UL 94-HB

Operating temperature 90°

Installation temperature: -40°C / +50°C

Fully submersible

Can be used underground

IP69K
OFFICIALLY
TESTED**IP68**
OFFICIALLY
TESTED**IMQ****IP68:** (6) protected against dust and solid objects over 1 mm.

(8) Protected from permanent immersion in water.

IP69K: (9K) protected against close-range high pressure, high temperature spray downs.

Little Joint Line

BARNEY	FRED	DINO	BETTY	TOM	BARNEY Y	FRED Y	DINO Y	BOB 3	BOB 4
--------	------	------	-------	-----	----------	--------	--------	-------	-------

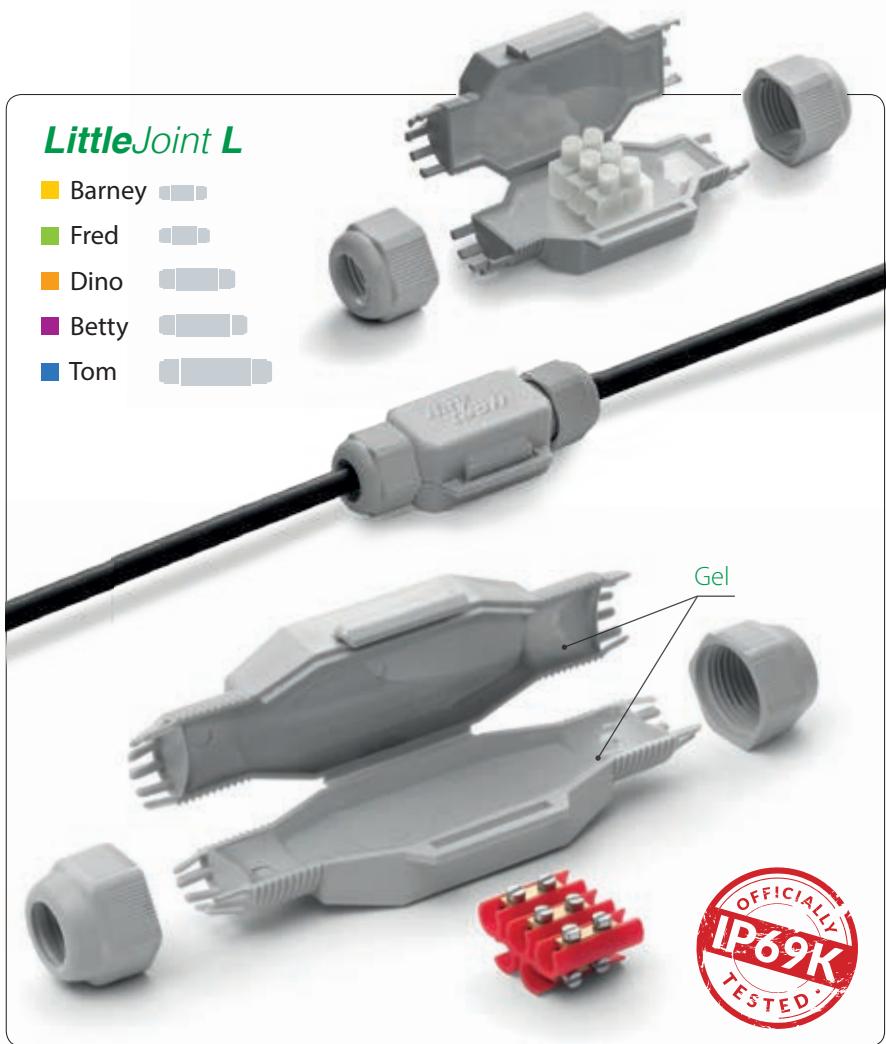
The IP68 / IP69K micro-joints, gel pre-filled, complete with connector, suitable for any type of installation, even the most extreme.

Extremely compact and space-saving, pre-filled with soft, highly conformable gel. With minimal aesthetic impact and visually pleasing. Equipped with integrated cable glands for IP68 and IP69K degree of ingress protection and cable retention.

- Pre-filled with classified non-toxic gel
- Extremely compact and ready to install
- Ideal for connections in lighting systems for gardens, steps and stairways, pedestrian crossings, etc.
- Halogen Free & UV resistant
- Always re-enterable

LittleJoint L

- | | |
|----------|--|
| ■ Barney | |
| ■ Fred | |
| ■ Dino | |
| ■ Betty | |
| ■ Tom | |

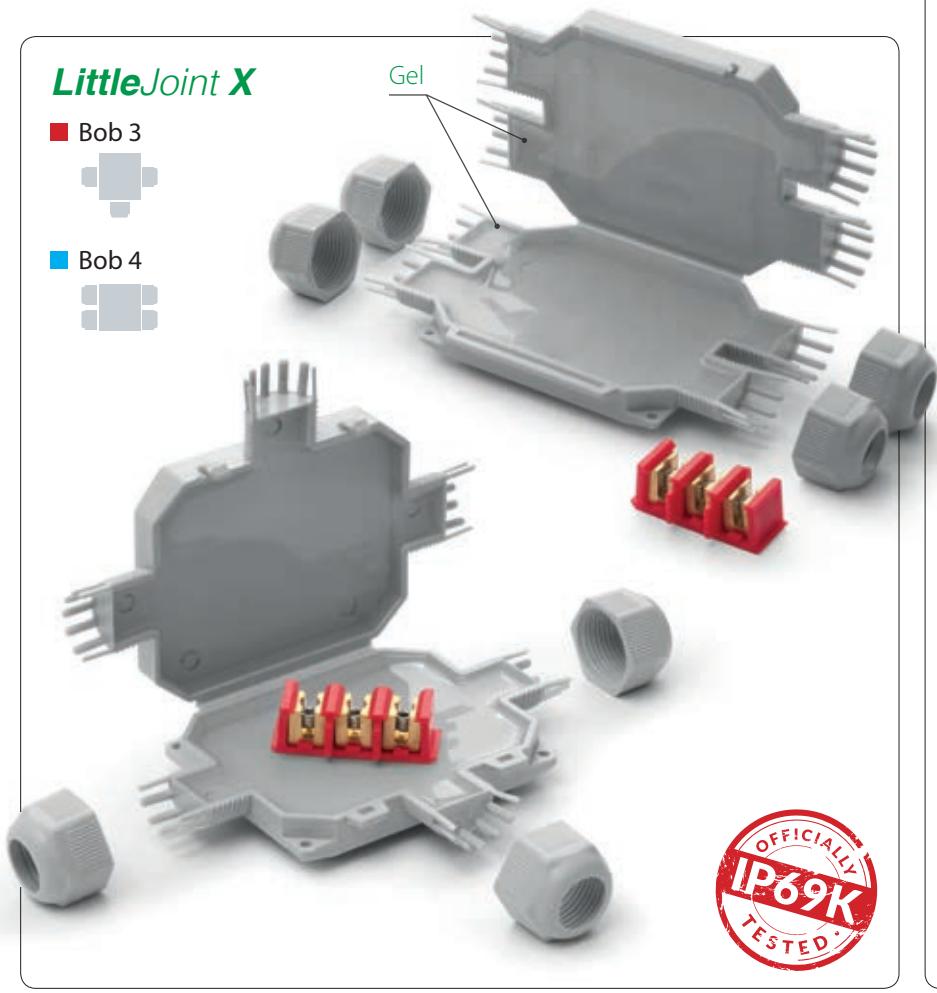


**LittleJoint Y**

- Barney Y
- Fred Y
- Dino Y

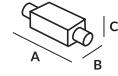
**LittleJoint X**

- Bob 3
- Bob 4

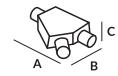


**LittleJoint L**

Product	Colour	Connector	Cable formation max (N° x mm²)	Ø cables min - max (mm)	Pieces / Pack	A x B x C (mm)
Barney	●				1 / Blister	
Barney - N	●		2 x 2,5	6 - 10	1 / Blister	75 x 28 x 19
Barney MP	●				10 / Multipack	
Fred	●				1 / Blister	
Fred - N	●		3 x 2,5	8 - 13	1 / Blister	80 x 36 x 23
Fred MP	●				10 / Multipack	
Fred/4	●				1 / Blister	
Fred/4 - N	●		3 x 4	8 - 13	1 / Blister	80 x 36 x 23
Dino	●				1 / Blister	
Dino - N	●		4 x 4	10 - 16	1 / Blister	125 x 43 x 35
Betty/4	●				1 / Blister	
Betty/4 - N	●		5 x 4	10 - 16	1 / Blister	145 x 46 x 35
Betty/6	●				1 / Blister	
Betty/6 - N	●		5 x 6	14 - 19	1 / Blister	145 x 46 x 35
Tom	●				1 / Blister	
Tom-N	●		5 x 16	19 - 23	1 / Blister	180 x 53 x 42

**LittleJoint Y**

Product	Colour	Connector	Cable formation max (N° x mm²)	Ø cables min - max (mm)	Pieces / Pack	A x B x C (mm)
			Through	Branch		
Barney Y	●		1 x 4 1 x 2,5	1 x 1,5 1 x 2,5	6 - 10	1 / Blister
Barney Y - N	●					85 x 55 x 22
Fred Y	●		3 x 4 3 x 2,5	3 x 1,5 3 x 2,5	8 - 13	1 / Blister
Fred Y - N	●					110 x 72 x 25
Dino Y	●		5 x 6 5 x 4 *	5 x 1,5 5 x 2,5 *	14 - 19	1 / Blister
Dino Y - N	●					160 x 75 x 37



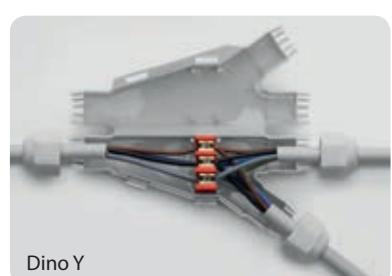
* section for rigid cables



Barney Y



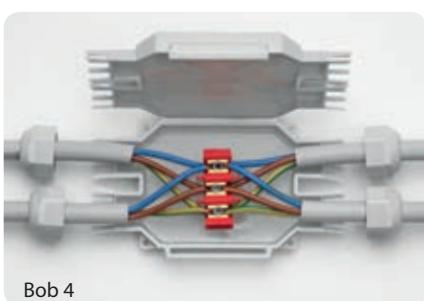
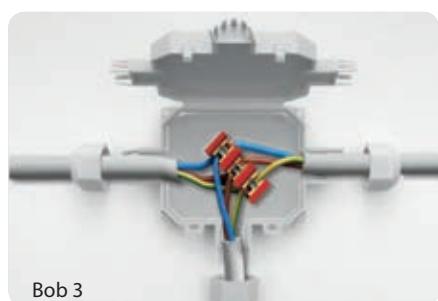
Fred Y



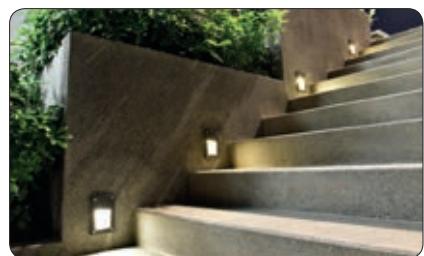
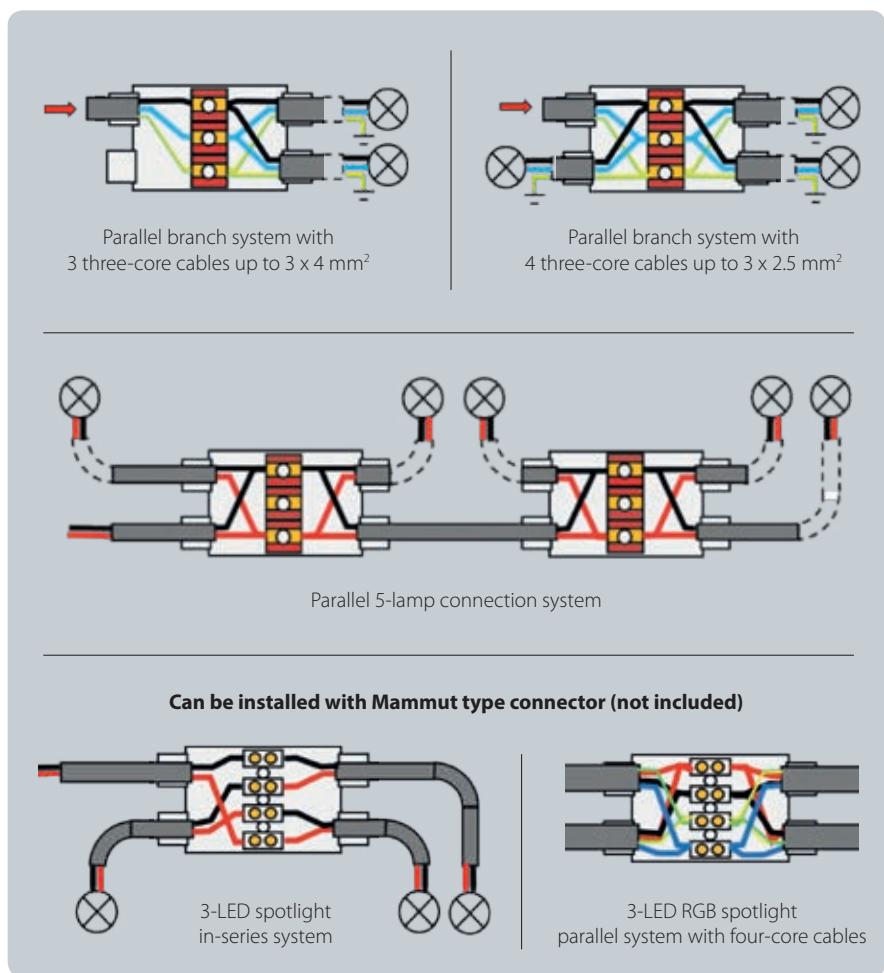
Dino Y

LittleJoint X

Product	Colour	Connector	Cable formation max (Nº x mm ²)	Through	Branch	Ø cables min - max (mm)	Pieces / Pack	A x B x C (mm)
Bob 3	●		1 cable 3 x 4 3 x 2,5	1 cable 3 x 4	2 cables 3 x 4	8 - 13	1 / Blister	105 x 80 x 25
Bob 3 - N	●		3 x 2,5	2 cables 3 x 2,5			1 / Blister	
Bob 4	●		1 cable 3 x 4	1 cable 3 x 4	2 cables 3 x 4	8 - 13	1 / Blister	105 x 65 x 25
Bob 4 - N	●		3 x 2,5	3 cables 3 x 2,5			1 / Blister	



Some installation possibilities for **Bob 4**



For use in traps. The ideal accessory for branch connections from a through cable to light fittings and spotlights. Suitable in applications where there is presence of water and moisture.

Ray Tech

Revolutionary!**Electrical performance:**CEI EN 50393 as applicable
Class 2 in accordance with CEI 64-8.**Gel:** UL 94-HB **Halogen free:**

according to CEI EN 50267 2-2

**Self-extinguishing and
resistant to abnormal
heat and fire:**Glow wire test at +960°C
according to EN 60695-2-11Operating
temperature  90°Gel operating temperature:
-60°C / +200°C **IP69K**
OFFICIALLY
TESTED**IP68**
OFFICIALLY
TESTED**IMQ**

Ready & Baby Box

3 or 4 entrances junction boxes pre-filled with gel, complete with integrated terminal block and cable glands for 8 to 18 mm diameter cables and for 16/20/32 mm ducts/conduit.

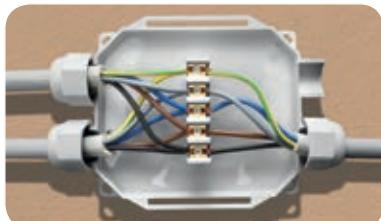
- Ready to use, they can be installed in all environmental conditions
- Also suitable for wet or flooded environments
- Always re-enterable
- Pre-filled with gel. Non-toxic and non-classified as hazardous under CLP
- Pre-threaded entries for cable gland mounting
- Snap shut closure, does not require screws
- Wall or external ceiling fixing system
- Halogen free & UV resistant
- No shelf life

**Box pre-filled with
non-toxic, safe gel.
Nothing to pour,
mix or cast!**



Ready, safe, quick and innovative

Ready Box IP68 - 120



Ready Box IP68 - 90



Thanks to its innovative design, unlike a standard box, there is no need to break through the walls of the box to insert the cable.

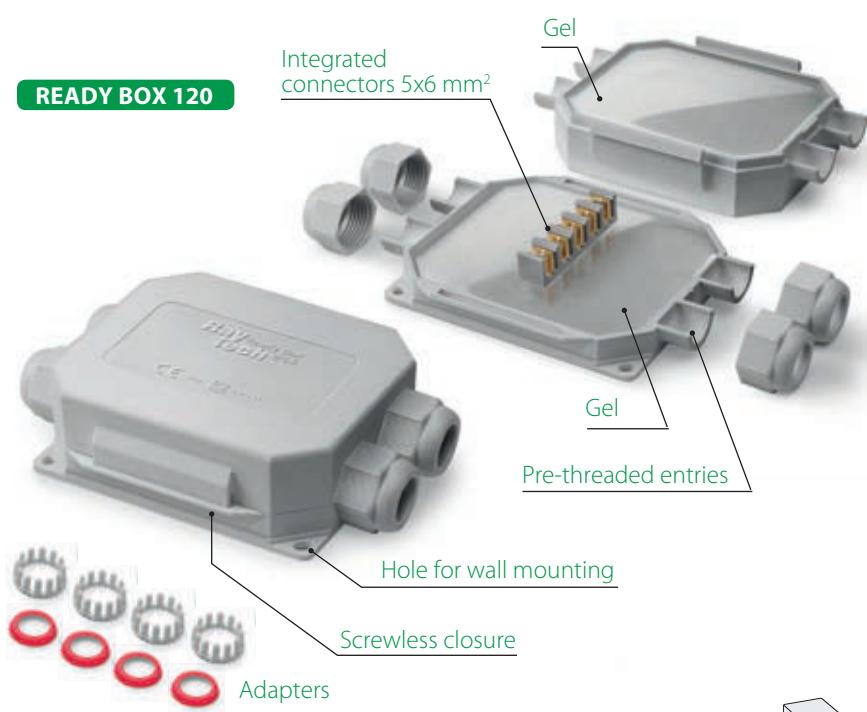
Also suitable for extra-flat lever connectors.

Also suitable for screw terminals.

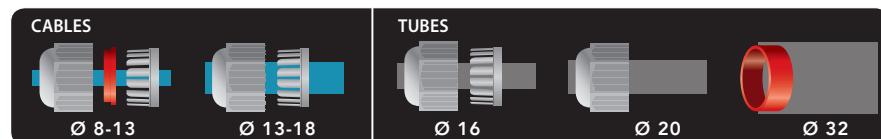
Installation with free cables.

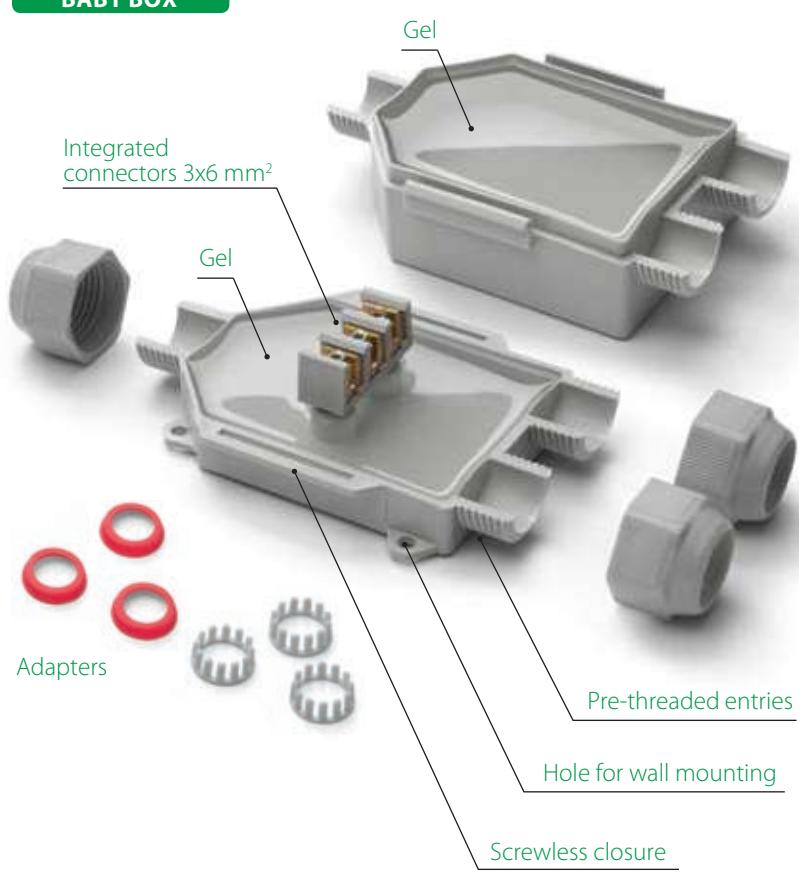


Installation with cable gland duct.

READY BOX 120**READY BOX 90**

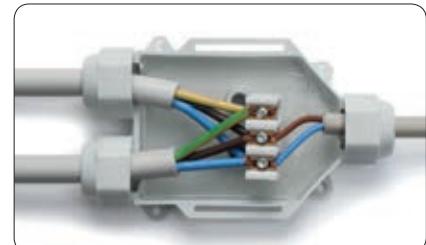
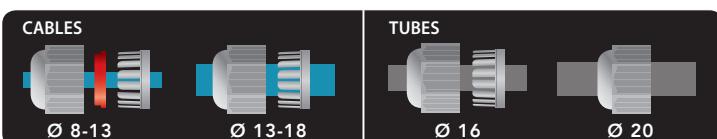
Product	Colour		Ø entrances with cable glands min (mm)	Ø tubes (mm)	A x B x C (mm)
Ready Box IP68 90	●		3	8	16 / 20 / 32
Ready Box IP68 90/N	●				90 x 90 x 45
Ready Box IP68 120	●		4	8	16 / 20 / 32
Ready Box IP68 120/N	●				120 x 100 x 45


Ray Tech

BABY BOX

A
B
C

Product	Colour		Ø entrances with cable glands	Ø tubes (mm)	A x B x C (mm)
			min (mm)	max (mm)	
Baby Box IP68	●	3	8	18	16 / 20 90 x 80 x 47
Baby Box IP68/N	●	3	8	18	16 / 20 90 x 80 x 47



With integrated connectors.



Also suitable for extra-flat lever connectors.



Also suitable for screw terminals.



**Ray
Tech**



**Ray
tech**

CABLE
ACCESSORIES
COMPANY

Monogel

Single component transparent insulation gel for generic use

- Ready to use
- No shelf life

Gel

Operating temperature

Installation temperature

Dielectric strength

Degree of protection

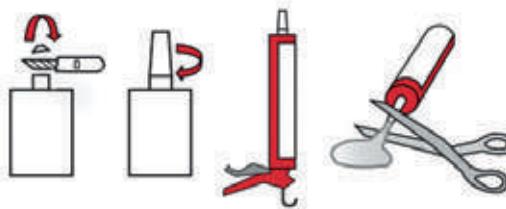
UL 94-HB

-60°C / +200°C

-40°C / +110°C

>23 kV/mm

IP68 (*in proper casings*)





**Ray
Tech**

CABLE
ACCESSORIES
COMPANY

Magic Gel & Fluid

Bicomponent gel with very high dielectric and thermal characteristics, ideal for connection systems (joint shells or enclosures) for power cables

The insulating and sealing gel, when cast in suitable casings, ensures an IP68 degree of protection and it is able to replace all types of resins. This is a self-polymer insulation in two practical bottles or in a single use bag, with cold cross linking. Once poured, the insulation, characterized by very low viscosity, surrounds and envelopes any type of material, cross linking in less than 10 minutes. Completely non-toxic, cross linking with a very slow isothermal peak that does not thermally stress the materials it comes into contact with.

- For high temperature applications!
- Quick cross linking (only 10 minutes)
- Re-enterable also after long working periods
- Non-toxic and safe with no shelf life
- Low viscosity

Gel

Dielectric strength

Cross linking time

Volume resistivity

Working temperature

Overload temperature for short periods

Stabilised for

Degree of protection

UL 94-HB

>23 kV/mm

fast (about 10 min. at 23°C)

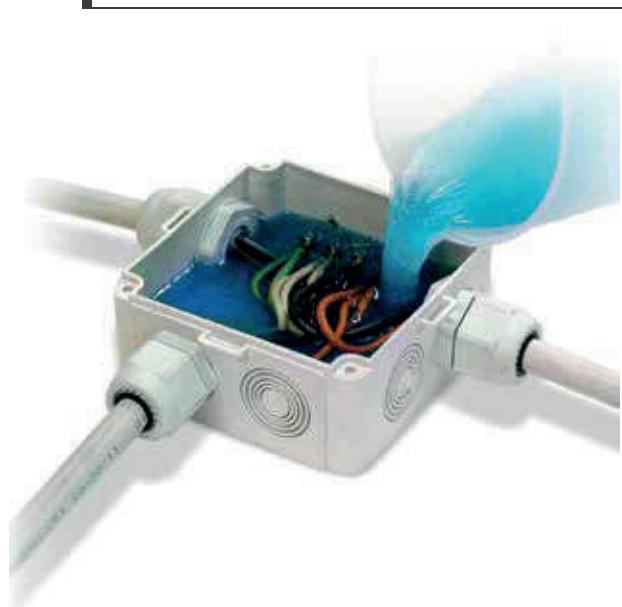
>2 x 10¹⁵ Ω cm

-60°C / +200°C

up to 250°C

mould – UV

IP68 (in proper casings)

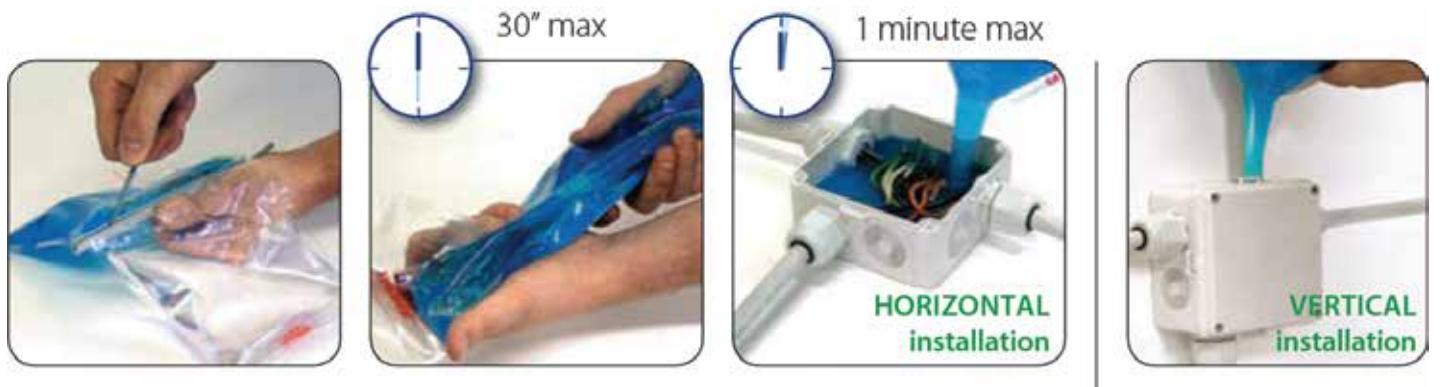


**IPX8
OFFICIALLY
TESTED** | **IMQ**

MAGIC GEL



MAGIC FLUID





**Ray
tech**

CABLE
ACCESSORIES
COMPANY

Magic Power Gel

The unique bi-component gel in a single bottle, with superior dielectric, sealing and thermal characteristics, re-enterable and re-usable!

- Very sticky
- Strong self amalgamating characteristics
- Single compact bottle; convenient twin compartment
- Re-usable as well as re-enterable, even after long working periods
- It doesn't give any waste
- Non toxic and safe

Gel

Dielectric strength

Cross linking time

Volume resistivity

Operating temperature

Overload temperature for short periods

Stabilised for

Degree of protection

UL 94-HB

>23 kV/mm

fast (about 15 min. at 25°C)

>2×10¹⁵ Ω cm

-60°C / +200°C

up to 250°C

mould – UV

IP68 (in proper casings)



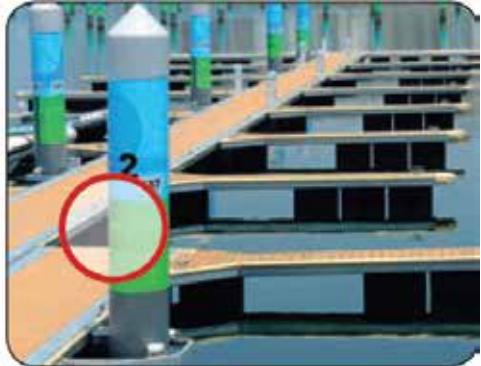
RE-ENTERABLE



RE-USABLE



INSULATING AND SEALING GEL



For all types of connections, even in the toughest conditions, for power, telecom and signalling!

Stickiness

- Exceptional sealing properties in any condition
- Better resistance to pressure
- Effective even in vertical or ceiling applications

Self-agglomerating

- Once cross linked it perfectly adheres on its own characteristics to get an homogeneous and compact mass
- It can be therefore applied in multiple layers.

Zero waste

- Due to the nature of the product waste is eliminated; even residual product can be saved and used for the next application
- Also any left over product maintains its high performance characteristics.

Single bottle

- Highly useful
- The most compact packaging
- Less space occupied in the toolbox
- Both components in the same packaging.





Single component insulating gels in cartridge to instantly protect new installations and oversee maintenance of all types of electrical connections

Installer's best friends. Electrical connections, within empty enclosures, are exposed to the risk of short circuit, oxidation and corrosion, at times, resulting in irreparable damages. Without stress and no waiting around, WonderGel and WonderGel Invisible make your job easier, guaranteeing the protection and safety of systems in compliance to best practice rules to provide the highest quality solution, quick and perfect to get the satisfaction of both you and your clients.

- Ready to use! No mixing required!
Already cross-linked! No need to wait!
- Resolve issues connected to incorrect insulation or sealing
- Eliminate annoying out of service instances caused by moisture
- Protect your systems from the penetration of insects
- Protect your electrical connections from oxidation and corrosion
- Italian Utility Model

VIDEO SURVEILLANCE SYSTEMS



CONNECTIONS IN MOIST ENVIRONMENTS



Time and space-saver

EASY TO APPLY EVEN IN AREAS WHICH ARE DIFFICULT TO ACCESS!



UNDERGROUND CONNECTIONS



Characteristics

- Single component gel which comes already cross-linked in a cartridge
- No mixing, no waiting time
- Visco-elastic gel which is extremely fluid
- Self-levelling and self-vulcanizing
- Can be applied using standard silicone ratchets
- Easy to measure
- Does not expire and does not harden
- Easy to apply even to inaccessible areas
- Characteristics do not deteriorate with the passing of time
- Re-enterable
- Non-toxic and safe
- Can be applied in all weather conditions, even when raining or in the heat of the summer sun
- Can be applied to powered appliances
- Dielectric strength > 23 kV/mm
- Volume resistivity > $2 \cdot 10^{15} \Omega \text{ cm}$
- Operating temperature from -60 / +200°C
- Overload temperature for brief periods: 250°C
- Gel UL 94-HB

* Protection degree IP68 in proper casings



**Ray
Tech**



Wonder Gel

Product	Colour	Package type	Total quantity
Wonder Gel	●	Cartridge with measuring nozzle	280 ml
Wonder Gel Invisible	○	Cartridge with measuring nozzle	280 ml

Sky Plast

Bicomponent rubber in insulating, mouldable, self-extinguishing paste with high dielectric characteristics.

Thanks to Raytech's constant and careful research and development of new technologies comes Sky Plast, absolute technical innovation for covering, protecting, insulating, finishing and fireproofing any electrical and non-electrical component. Once the 2 components have been blended in a ratio of 1:1 (for max 2 min.) until uniform, it cross links quickly at room temperature in less than 5 minutes. After being wrapped around the component to be protected, Sky Plast quickly transforms into a layer of rubber with high dielectric and self-extinguishing characteristics.

- Mouldable, non-toxic and safe paste
- Low smoke and toxic and corrosive gases emission
- Able to replace taping, heat-shrinking, resin finishes
- Flexible and elastic
- Quickly ready for use



Sky Plast

Product	Colour	Package type	Total quantity
Sky Plast	●	2 bicomponent cans	500 gr
Sky Plast 250	●	2 bicomponent cans	250 gr

Dielectric strength:

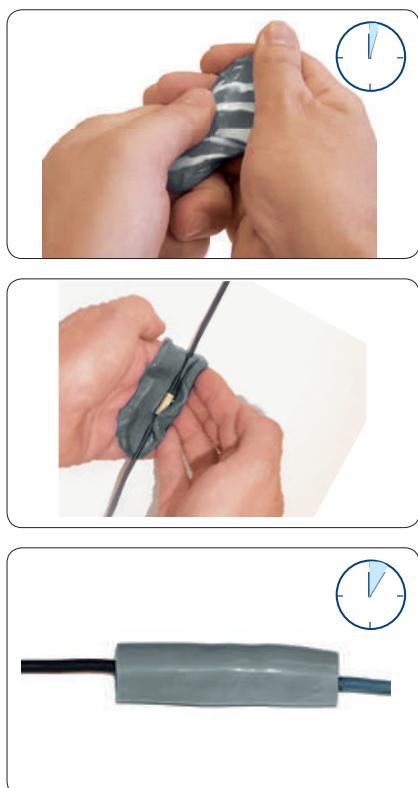
> 23 kV/mm

Degree of protection:

IP68 (in proper casings)



Installation sequence





**Ray
Tech**

CABLE
ACCESSORIES
COMPANY

Techno GelGum

Single bottle two-component insulation with very high dielectric, thermal and sealing characteristics. Waterproof and re-enterable!

TechnoGelGum is a strong hold flexible elastomer whose formula has been optimised for the protection of POWER CABLE, TELECOM CABLE and ELECTRONIC CIRCUIT connections. A new recipe that gives the product a surprising, original texture that combines the characteristics of GEL and RUBBER to emphasise its features. It's elastic and flexible like gel, but also tough and dry like rubber.

- For installations up to 1 kV
- Suitable for high temperatures
- Even suitable for high depths under water
- Waterproof > 1 MPa
- UV resistant
- Removable
- Vibration resistant can act as a damper
- Suitable for installation in salt water (sea) and in chlorinated water (pools)
- Non toxic and safe

Dielectric strength

≥ 21 kV/mm

Cross linking time

fast (*about 10 min. at 25°C*)

Volume resistivity

> 10¹⁵ Ω cm

Operating temperature

-60°C / +200°C

Overload temperature for short periods

up to 250°C

Stabilised for

mould-UV

Degree of protection

IP68 (*in proper casings*)

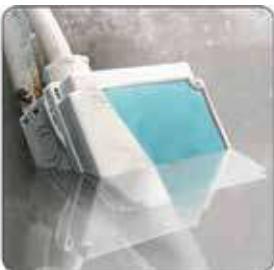


**IP68
OFFICIALLY
TESTED** | **IMQ**

Not quite a Gel and not quite RUBBER,
BUT HAS THE BEST FEATURES OF BOTH!



SAFE



WATERPROOF



RE-ENTERABLE



Installation sequence



Pour TechnoGelGum into the
Provided beaker in a 1:1 ratio



Mix for
1 min. max

Shake before using



Pour within 1 min. max



In just 10 minutes the curing is completed





**Ray
Tech**

CABLE
ACCESSORIES
COMPANY

Magic Rubber

Fast cross linking bicomponent rubber.

Bicomponent insulating liquid rubber, extremely conformable and fluid, flexible, elastic and re-enterable In just a few minutes, transforms into a rubber with very high dielectric, thermal, mechanical and elastic characteristics.

- For installation up to 1kV
- Low smoke, toxic and corrosive gas emissions
- Ideal also for casts and moulds
- No shelf life

Cross linking time

15 minutes at 23°C

Volume resistivity

>2 1015 Ω cm

Dielectric strength

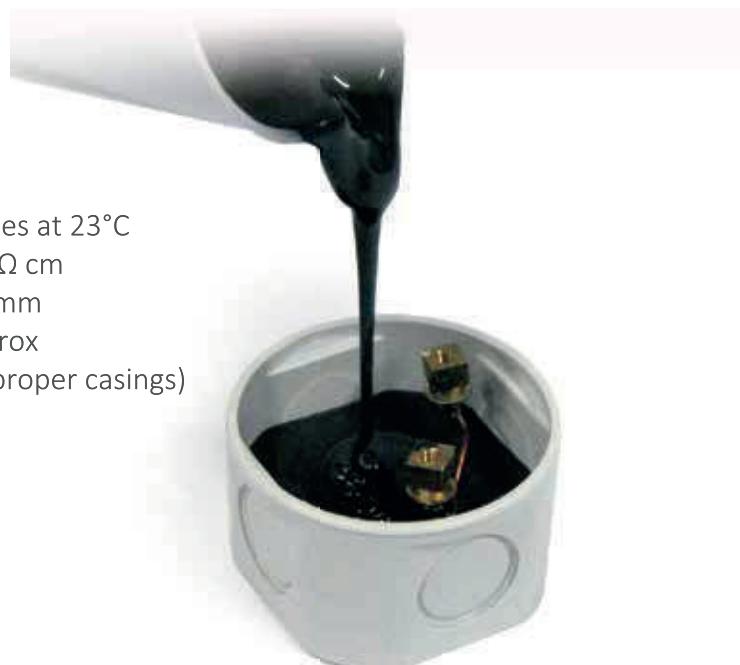
> 23 kV/mm

Specific weight

1,22 approx

Degree of protection

IP68 (in proper casings)



Mix the 2 components
in a ratio of 1:1.



Mix for
max 30".



Pour the product into
the casing to be filled.



In just a few minutes, the
product transforms into rubber.

IP68
OFFICIALLY
TESTED | **IMQ**



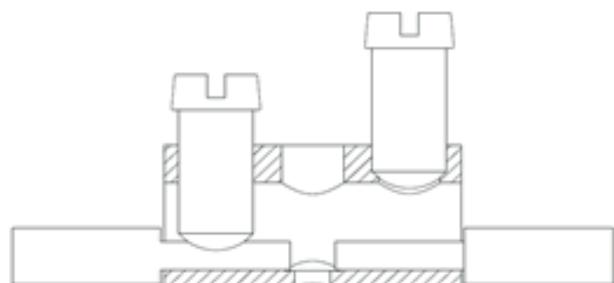
We make **Extraordinary** of the **Ordinary**

Adels Contact

Conventional Connector:

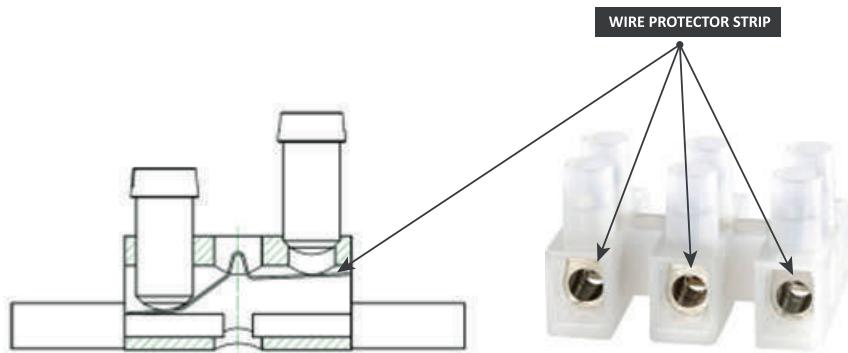
Disadvantage: Screw presses the conductor resulting:

- Point contact means small surface contact.
- Chances of damage to the conductor
- Chances of conductor slipping a side resulting in loose contact
- Splitting of strands in case of multi strand wire



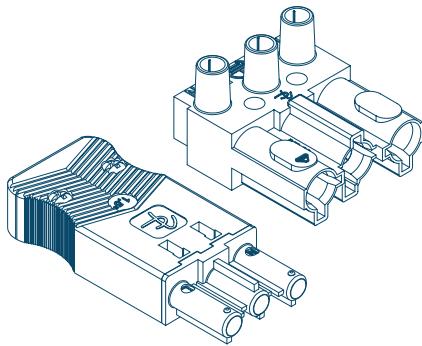
Advantage of DS Range:

- Increased contact surface
- No chance of damage to the conductor since pressure is spread over larger surface
- No chance of slipping of even the thinnest conductor
- No chance of splitting of strands



Series

	230DS	1000DS	1500DS	2000DS
Number of Poles	2-12	2-12	2-12	2-12
Core Cross Section (Min)	0.5sqmm	0.5sqmm	0.5sqmm	0.5sqmm
Core Cross Section (Max)	2.5sqmm	6sqmm	10sqmm	16sqmm
Voltage Rating	450V	500V	500V	500V
Current Rating	24 Amps	41 Amps	57 Amps	76 Amps
Flammability Rating	V-2	V-2	V-2	V-2
Approvals	EN 60998, UL, CSA			



The building installation connector according to EN 61535 saves 70 % of time and 30 % of costs during installation. This is achieved by the “plug & play” functionality used by Adels-Contact. No dismantling, no stripping. Just connect. Extremely important for applications in furniture and display manufacturing, in luminaires and in booth construction as well as in building installation. Time saving installation (up to 70% timesaving compared to conventional installations system).

Terminal connectors with wire protector How a simple, the most ordinary connector is turned into a reliable and fail safe connector.

Adels Contact range of terminal connectors:

- A very small BOQ. No conduits and accessories, no wastage of wires.
- Reusable system. Very useful for short leased properties like retail and offices.
- Especially important for furniture wiring.
- Current rating up to 20. Amps.
- Different color codings for different power applications like raw power/pure power/ controls/signals etc. Only the same color plug sockets will mate. Thus avoiding the risk of wrong mating.



Sr. No.	Item Details	Image	3 Pole	4 Pole	5 Pole
			Item Code	Item Code	Item Code
1	Panel Socket		168863	168864	168865
2	Panel Plug		168763	168764	168765
3	Flat Socket		165463	165464	165465
4	Flat Plug		162463	162464	162465
5	Distributor 1 In 2 Out		167263	167164	167165
6	Distributor 1 in 3 Out		18052	18087 (T Shape)	18089 (T Shape)



Who we are?

Over the last decade, Ovistech Systems has proven its mettle as a lighting solutions provider to reckon with market leaders. We have ventured into the business of quality connection systems, bringing in highly specialised range of waterproof connectors from Techno SRL & gel-based systems from Raytech SRL; innovative connection solutions from Adels Contact.

Upholding human safety and well-being being the foremost consideration, we've ensured that every brand we promote in India is completely safe to use, even for the grassroot installers. Through our efforts at the most basic levels, we have ascertained that this wide range of systems & solutions will find a place and add much value to our country's highly diversified projects.



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