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SUPPORT FOR THE INSTALLATION

All the Palazzoli systems are studied to reduce the installation time guaranteeing a high and continuous standard of performance. In the website www.palazzoli.com you can find installation advices, references and videos.



Solutions for roadway, railway and undergrounds

Certified quality

The system TUNNEL 54 is made from fire-resistant, flame-retardant and rodent-proof devices certified from Laboratories reliable at international level (IMQ, INTEK).

The system TUNNEL 54 is made of FIRE PROOF certified aluminum alloy. This certification guarantees the resistance at test performed at 400°C for 120' (in compliance with the guidelines for the design of Safety in roadway tunnels - ANAS/2009) and at 850°C for 90' (EN50200)

TUNNEL54 SERIES
Interlocked compact socket-outlets
for tunnel fans with inlets
for single-pole cables
50-60Hz IP66 - > IK10
400°C for 120'

Rated current (A)	Rated use voltage	Poles	Auxiliary contact (AUX)	Palazzoli Code	Pack Q.ty
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1 NO
1 NO

Equipment:

plug IP67. Cable glands included

External earth terminal

TUNNEL54 SERIES
Interlocked compact socket-outlets
for tunnel fans with inlets
for multi-pole cables
50-60Hz IP66 - > IK10
400°C for 120'

Rated current (A)	Rated use voltage	Poles	Auxiliary contact (AUX)	Palazzoli Code	Pack Q.ty
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1 NO
1 NO

Equipment:

n. 1 63A 3P+⊕ plug IP67. Cable glands included

External earth terminal

TUNNEL54 SERIES
Reduction adaptors
for large diameter
single-pole cables
50-60Hz IP66 - > IK10
400°C for 120'

Line cables sections (mm ²)	Terminals poles sections (mm ²)	External dimensions (mm)	Cable gland line (ømm)	Palazzoli Code	Pack Q.ty
from 50 to 70	3x70	185x252x152	M32 (11-21)		
from 95 to 120	3x125	252x319x193	M40 (15-27)		
from 150 to 185	200	315x315x193	M40 (15-27)		

Equipment:

Fittings for internal and external earth screws

M40 output sized for 3x25mm² or 3x16mm cables

Code 151535 with cable glands installes on a raised flange F5.

TUNNEL54 SERIES
Reduction adaptors
for large diameter
multi-pole cables
50-60Hz IP66 - > IK10
400°C for 120'

Line cables sections (mm ²)	Terminals poles sections (mm ²)	External dimensions (mm)	Cable gland line (ømm)	Palazzoli Code	Pack Q.ty
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Equipment:

Fittings for internal and external earth screws

M40 output sized for 3x25mm² or 3x16mm cables²

TUNNEL54 SERIES
Rapid fastening supports
of interlocked socket-outlets
for tunnel fans

Application	Palazzoli Code	Pack Q.ty
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Wall mounting bracket

TUNNEL54 SERIES
Rapid fastening supports
of interlocked socket-outlets
for tunnel fans

Application	Palazzoli Code	Pack Q.ty
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For trunking H 200m

For trunking H 300m

TUNNEL54 SERIES
Rapid fastening supports
of interlocked socket-outlets
for tunnel fans

Application	Palazzoli Code	Pack Q.ty
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Mounting on support of trunking

TUNNEL54 SERIES
Electrical line enclosures
for single-pole cables with
puncture insulation connections
in reinforced technopolymer
for ordinary and reinforcing lighting
with IEC309-2 socket outlet
IP66 - > IK08

Line cable section (mm ²)	Class	External dimensions (mm)	Protections	Palazzoli Code	Pack Q.ty
4 - 16	II	164x242x135	-		

TUNNEL54 SERIES
Electrical line enclosures
for single-pole cables with
puncture insulation connections
in aluminum alloy
for emergency lighting
with IEC309-2 socket-outlet
IP66 - > IK10
850°C for 90'

Line cable section (mm ²)	Class	External dimensions (mm)	Protections	Palazzoli Code	Pack Q.ty
	I	247x225x130	1 fuse 6A (L)		
	I	247x225x130	2 fuses 6A (L+N)		
	II	247x225x130	1 fuse 6A (L)		
	II	247x225x130	2 fuses 6A (L+N)		

TUNNEL54 SERIES
Electrical line enclosures
for single-pole cables with
puncture insulation connections
in aluminum alloy
for emergency lighting
with cable gland
IP66 - > IK10
850°C for 90'

Line cable section (mm ²)	Class	External dimensions (mm)	Protections	Palazzoli Code	Pack Q.ty
	I	247x225x130	1 fuse 6A (L)		
	I	247x225x130	2 fuses 6A (L+N)		
	II	247x225x130	1 fuse 6A (L)		
	II	247x225x130	2 fuses 6A (L+N)		

TUNNEL54 SERIES
Puncture insulation fixing
support for junction enclosures

Material	Palazzoli Code	Pack Q.ty
Stainless steel AISI304		
Painted galvanised steel RAL7035		

Equipment:
ideal in trunking with maximum height of 100 mm.

TUNNEL54 SERIES
Electrical line enclosures
for single-pole cables with
puncture insulation connections
in aluminum alloy
for emergency lighting
with 2 cable glands
IP66 - > IK10
850°C for 90'

Line cable section (mm ²)	Class	External dimensions (mm)	Protections	Palazzoli Code	Pack
	I	247x225x130	1 fuse 6A (L)		
	I	247x225x130	2 fuses 6A (L+N)		
	II	247x225x130	1 fuse 6A (L)		
	II	247x225x130	2 fuses 6A (L+N)		

TUNNEL54 SERIES
Screws for fixing the support
for junction enclosures

Material	Palazzoli Code	Pack Q.ty
Stainless steel		

TUNNEL54 SERIES
 Interlocked compact socket-outlets
 high power for tunnel fans
 50-60Hz IP66 - >IK10
 400°C for 120'

Rated current (A)	Rated use voltage	Poles	Palazzoli Code	Pack Q.ty
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TUNNEL54 SERIES
 Raised closing flanges
 in aluminum alloy
 with brass cable glands
 for multi-pole cables
 IP67 >IK10
 400°C for 120'

Cable glands Line	Allowed diameter (mm)	Palazzoli Code	Pack Q.ty
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TUNNEL54 SERIES
 Tunnel fan plugs
 in aluminum alloy
 50-60Hz IP66 - >IK10
 400°C for 120'

Pack Q.ty

TUNNEL54 SERIES
 Raised closing flanges
 in aluminum alloy
 with brass cable glands
 for single-pole cables
 IP67 >IK10
 400°C for 120'

Cable glands Line	Allowed diameter (mm)	Palazzoli Code	Pack Q.ty
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TUNNEL54 SERIES
 Pair of supports for fastening
 interlocked socket-outlets
 to the ceiling

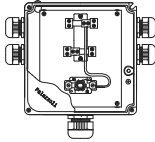
Material	Palazzoli Code	Pack Q.ty
Stainless steel AISI304		

Characteristics:
 complete with adjustable coupling for mounting to ceiling
 with profile 50x30mm and socket fastening screws

TUNNEL54 SERIES
 Glazing enclosures
 fan power supply lines
 IP66 >IK10
 400°C for 120'/850°C for 90'

Line cables sections	Terminals poles sections	External dimensions	Cable gland line	Palazzoli Code	Pack Q.ty
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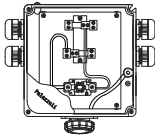
TUNNEL54 SERIES
Enclosures for electrical line
for unipolar cables for tunnel
floodlights, branch line
with cable gland
IP66 - >IK10
850° C for 90'



Line cables sections	Terminals poles sections	External dimensions	Cable gland line	Palazzoli Code	Pack Q.ty
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Equipment:
Reduction flanges

TUNNEL54 SERIES
Enclosures for electrical line
for single-pole cables for tunnel
floodlights, branch line
with IEC309-2 socket-outlet
IP66 - >IK10
850° C for 90'

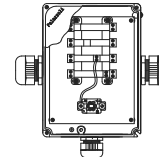


Line cables sections	Terminals poles sections	External dimensions	Cable gland line	Palazzoli Code	Pack Q.ty
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Characteristics:

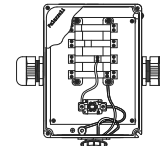
2-pin terminal block fixed on ceramic base with brass conductive bars and two screws non-loosening terminals.
Nickel-plated brass cable glands with ISO metric thread and cable radial fastening. M6 inside and outside earth terminal. Protection of the power supply phase of the light body using an E14-D01 ceramic fuse-holder base complete with fuses. The fuse base is prewired at junction box.
With socket-outlet 16A - 2P+
The resistance at 850° C for 90' is applied to the enclosure.
Complementary items: fastening brackets.

TUNNEL54 SERIES
Enclosures for electrical line
for multi-pole cables for tunnel
floodlights, branch line
with cable gland
IP66 - >IK10
850° C for 90'



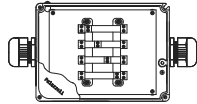
Line cables sections	Terminals poles sections	External dimensions	Cable gland line	Palazzoli Code	Pack Q.ty
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TUNNEL54 SERIES
Enclosures for electrical line
for multi-pole cables for tunnel
floodlights, branch line
with IEC309-2 socket-outlet
IP66 - >IK10
850° C for 90'



Line cables sections	Terminals poles sections	External dimensions	Cable gland line	Palazzoli Code	Pack Q.ty
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TUNNEL54 SERIES
 Glazing enclosures for power supply lines for tunnel floodlights
 IP66 - >IK10
 850° C for 90'



Line cables sections	Terminals poles sections	External dimensions	Cable gland line	Palazzoli Code	Pack Q.ty
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Characteristics:

4-pole terminal block fixed on ceramic base with brass conductive bars and two screw non-loosening terminals.
 No. 2 nickel-plated brass cable glands with ISO metric thread and cable radial fastening.
 M6 internal and external earth terminal.

TUNNEL54 SERIES
 Pair of supports for tunnel enclosures fastening

Material	For boxes dimensions	Palazzoli Code	Pack Q.ty
Stainless steel AISI304	185x185 / 252x185		
Stainless steel AISI304	185x252 / 315x252		
Stainless steel AISI304	252x315		

Equipment:
 screws for enclosures fastening

TUNNEL54 SERIES
 Lighting fixtures in stainless steel AISI304 - glass with symmetrical aluminum reflector and fuse protection
 230VAC/DC - IP65 Class II

Power (W)	Power supply	Lampholders and lamps	Palazzoli Code	Pack Q.ty
2x18	electronic	G13 T8		
2x36	electronic	G13 T8		
2x54	electronic	G5 T5		

Characteristics:

The lighting fixtures can be supplied in special execution complete with brackets for rapid fastening to channel and/or wired with cable and plug.

TUNNEL54 SERIES
 Lighting fixtures in stainless steel AISI304 - glass with asymmetrical aluminum reflector and fuse protection
 230VAC/DC - IP65 Class II

Power (W)	Power supply	Lampholders and lamps	Palazzoli Code	Pack Q.ty
2x18	electronic	G13 T8		
2x36	electronic	G13 T8		
2x54	electronic	G5 T5		

Characteristics:

The lighting fixtures can be supplied in special execution complete with brackets for rapid fastening to channel and/or wired with cable and plug.

TUNNEL54 SERIES
 Rapid fastening supports for lighting fixtures

Material	Applications	Palazzoli Code	Pack Q.ty
Stainless steel AISI304	for trunking H 200mm		
Stainless steel AISI304	for trunking H 300mm		

RINO SERIES
 Rapid fastening supports for lighting fixtures

Material	Rotating angle	Palazzoli Code	Pack Q.ty
Stainless steel AISI304	75°		

TAIS SERIES

AS wired and certified ready-to-use distribution boards with 2 16A interlocked socket-outlets with fuses, differential protection 40A 30mA, in thermosetting (GRP) material IP66/IP67

16A Interlocked socket-outlets		RCD protection	Palazzoli Code	Pack Q.ty
2P+± 230V	3P+± 400V			

Equipment:
sockets with fuses included

TAIS SERIES

AS wired and certified ready-to-use distribution boards with 2 16A interlocked socket-outlets and fuses in thermosetting (GRP) material IP66/IP67

16A Interlocked socket-outlets		Palazzoli Code	Pack Q.ty
2P+± 230V	3P+± 400V		

Equipment:
board with terminal block of 4x16mm sockets with fuses included

UNIBOX SERIES

Universal enclosures in aluminum alloy IP66/IP67 - IK08

Description	Dimensions (mm)		Palazzoli Code	Pack Q.ty
	external	internal		
Enclosure UNI B9	100x100x59	88x88x44		
Enclosure UNI B11	140x115x60	128x103x46		
Enclosure UNI B12	166x141x64	153x125x49		
Enclosure UNI B14	192x168x80	176x152x65		
Enclosure UNI B19	253x217x93	236x201x75		
Enclosure UNI B20	314x264x122	292x243x104		
Enclosure UNI B21	410x315x150	386x291x126		

Equipment:
4 screws for fixing the cover on the box
2 screws for predispositions of earth connection

Characteristic:
Covers with anti-loosening stainless steel screws
Enclosures predisposed for fixing the DIN rail horizontally or vertically using M4x6 self-tapping screws.
Palazzoli DIN rail can be mounted only diagonally.

UNIBOX SERIES

Bottom plates in zinc steel for UNIBOX enclosures

Description	Dimensions (mm)	Palazzoli Code	Pack Q.ty
for enclosure UNI B11	119x78		
for enclosure UNI B12	132x108		
for enclosure UNI B14	165x125		
for enclosure UNI B19	200x165		
for enclosure UNI B20	250x210		
for enclosure UNI B21	345x257		

Equipment:
4 screws for fixing the cover on the box
2 screws for predispositions of earth connection

UNIBOX SERIES

DIN EN 50022 rail for UNIBOX enclosures

Description	Palazzoli Code	Pack Q.ty
for enclosure UNI B9		
for enclosure UNI B11		
for enclosure UNI B12		
for enclosure UNI B14		
for enclosure UNI B19		
for enclosure UNI B20		
for enclosure UNI B21		

Equipment:
2 screws for predispositions of earth connection

SERIES TUNNEL54

Solutions for roadway,
railway and undergrounds

Roadway

Railway and undergrounds

Tunnels

PF Lombardia: 100 tunnels - SS. 106 Jonica
Salerno-Reggio Calabria motorway - SS. 42 Tonale
A1/A14 Italian motorway
Catania Siracusa motorway - SS. 145 Sorrentina
SS. 125 Capoboi - La Rupe Trento - Secante Cesena

Undergrounds

Turin - Brescia - Milan - Naples - Rome
Florence - Copenhagen - London - Dubai



Palazzoli



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UNI EN ISO 9001

