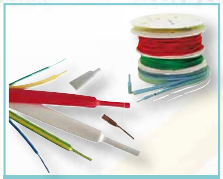
Pictograms of the table head

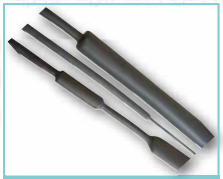
- Shrinking tube for cable cord
- Outer jacket covering tube
- Main
- Side
- Hardening time
- Volume
- Water uptake (42 days at 50 °C)
- mm² Terminal capacity
- 3× Three wires
- Weight

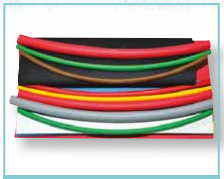
Pictograms of the technical data

- 2:1 Shrinking ratio
- To -40..+105°C Ambient temperature
- NO Halogen Halogen-free
- UV UV-proof
- l 1m Length
- Polyolefin Material: Polyolefin
- 20 kV/mm Dielectric strength
- ×15 The set contains
- PE Material: Polyethylene
- Ts -20..+45 °C Storage temperature
- Ts min.135°C Shrinking temperature
- SR Material: Silicone rubber
- Silicon free Silicon free
- Waterproof


Thin wall heat shrink tubes with 2:1 shrink ratio 2

Thin wall heat shrink tubes, 3:1 shrink ratio 3


Medium and heavy wall heat shrink tubes 4


Heat shrink hobby set 4

Heat shrink tube sets 5

Low voltage joint kits for 0,6/1 kV unshielded cables 6

Low voltage, heat shrink straight joint sets for wire-shield cables 7

Low voltage, heat shrink straight joint sets for tape-shield cables 8

2-way breakouts 9

3-way breakouts 9

4-way breakouts 10

Heat gun 10

5-way breakouts 11

Outdoor terminal kits for 0,6/1 kV unshielded cables 11

Outdoor terminal kits for 0,6/1 kV wire shielded cables with 4 cores 12

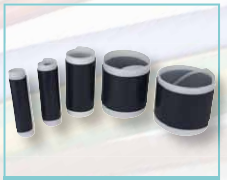
Outdoor terminal kits for 0,6/1 kV tape shielded cables with 4 cores 13

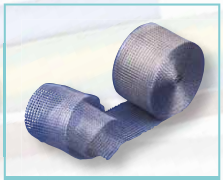
Straight resin-filled jointing kits 14

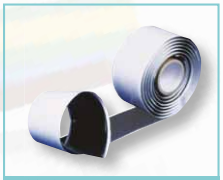
Y-shaped resin-filled jointing kits 15

End caps 16

Wrap-around sleeves 16


Cold shrink tube 17


ZSSZR5 type copper mesh 18


ZSSZOH 1,5 type filling and sealing tape 18

ZSSZVM-1 type mastic tape 18

Constant force spring 18

D

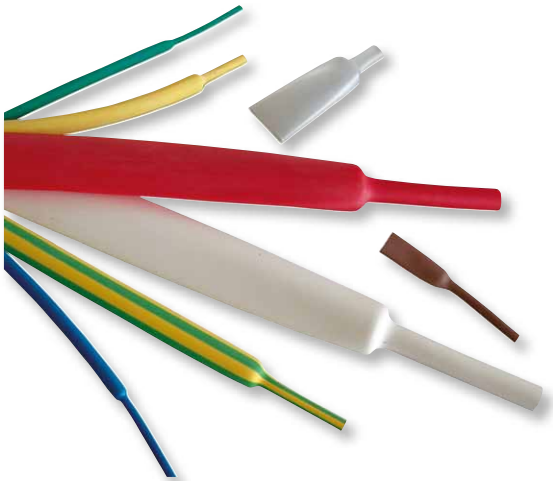
Thin wall heat shrink tubes with 2:1 shrink ratio, without adhesive

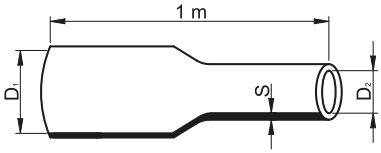
2:1 | Polyolefin | 1m | 12kV/mm | Ts min.120°C | To -40..+105°C | Ts -20..+45 °C | NO Halogen | Silicon free

Pictograms D/0

TRACON											D_1 (mm)	D_2 (mm)	S (mm)
ZS016	ZS016SZ	–	ZS016K	–	ZS016P	ZS016S	ZS016Z	ZS016FEH	ZS016N	ZS016LIL	1.6	0.8	0.45
ZS024	ZS024SZ	ZS024B	ZS024K	ZS024ZS	ZS024P	ZS024S	ZS024Z	ZS024FEH	ZS024N	ZS024LIL	2.4	1.2	0.43
ZS032	ZS032SZ	ZS032B	ZS032K	ZS032ZS	ZS032P	ZS032S	ZS032Z	ZS032FEH	ZS032N	ZS032LIL	3.2	1.6	0.43
ZS048	ZS048SZ	ZS048B	ZS048K	ZS048ZS	ZS048P	ZS048S	ZS048Z	ZS048FEH	ZS048N	ZS048LIL	4.8	2.4	0.43
ZS064	ZS064SZ	ZS064B	ZS064K	ZS064ZS	ZS064P	ZS064S	ZS064Z	ZS064FEH	ZS064N	ZS064LIL	6.4	3.2	0.56
ZS095	ZS095SZ	ZS095B	ZS095K	ZS095ZS	ZS095P	ZS095S	ZS095Z	ZS095FEH	ZS095N	ZS095LIL	9.5	4.8	0.56
ZS127	ZS127SZ	ZS127B	ZS127K	ZS127ZS	ZS127P	ZS127S	ZS127Z	ZS127FEH	ZS127N	ZS127LIL	12.7	6.4	0.56
ZS190	ZS190SZ	ZS190B	ZS190K	ZS190ZS	ZS190P	ZS190S	ZS190Z	ZS190FEH	ZS190N	ZS190LIL	19	9.5	0.7
ZS254	ZS254SZ	ZS254B	ZS254K	ZS254ZS	ZS254P	ZS254S	ZS254Z	ZS254FEH	ZS254N	ZS254LIL	25.4	12.7	0.76
ZS381	ZS381SZ	ZS381B	ZS381K	ZS381ZS	ZS381P	ZS381S	ZS381Z	ZS381FEH	ZS381N	ZS381LIL	38.1	19	0.86
ZS508	ZS508SZ	ZS508B	ZS508K	ZS508ZS	ZS508P	ZS508S	ZS508Z	ZS508FEH	ZS508N	–	50.8	25.4	0.96
ZS760	–	–	–	–	–	–	–	–	–	–	76.2	38.1	1.2
ZS1020	ZS1020SZ	–	–	–	ZS1020P	ZS1020S	ZS1020Z	–	–	–	101.6	50.8	1.15

By ordering a boxed version (spanned on reel) the code is followed by –D, e.g. ZS016-D.





D1 – inner diameter before shrinkage
D2 – inner diameter after free shrinkage
S – wall thickness after free shrinkage

RELEVANT STANDARD
EN 60684

Fields of application

- Electrical insulation of cables and wires
- Correction of insulation defects of wires
- Corrosion protection of wires and cables
- Protect the wires against humidity and weather effects
- Electrical insulation of cable lugs
- Protection of active parts of electronic devices
- Corrosion protection of metal rods and tool handles
- Decoration purposes

Thin wall heat shrink tubes, 3:1 shrink ratio

3:1 | Polyolefin | 1m | 20kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV ☺

Pictograms D/0

Without adhesive

TRACON	D_1 (mm)	D_2 (mm)	S (mm)
ZSV30	3	1	0.55
ZSV48	4.8	1.6	0.60
ZSV60	6	2	0.65
ZSV90	9	3	0.75
ZSV120	12	4	0.75
ZSV180	19	6	0.95
ZSV240	24	8	1.15
ZSV390	39	13	1.30

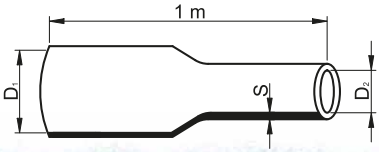
With adhesive

3:1 | Polyolefin | 1m | 20kV/mm | Ts min.120°C | To -55..+110°C | Ts -20..+45 °C | NO Halogen | UV ☺

Pictograms D/0

TRACON	D_1 (mm)	D_2 (mm)	S (mm)
ZSVR30	3	1	1
ZSVR48	4.8	1.6	1
ZSVR60	6	2	1
ZSVR90	9	3	1.4
ZSVR120	12	4	1.6
ZSVR190	19	6	2.15
ZSVR240	24	8	2.4
ZSVR390	39	13	2.4

RELEVANT STANDARD
EN 60684

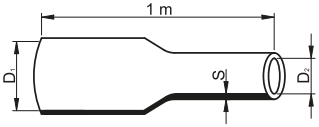


Medium and heavy wall heat shrink tubes, with adhesive

Medium wall versions

3:1/4:1 | Polyolefin | 1m | 12kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV

TRACON	D_1 (mm)	D_2 (mm)	S (mm)
ZS8/2R	8	2	1.7
ZS12/3R	12	3	1.5
ZS16/4R	16	4	2
ZS19/6R	19	6	2.5
ZS30/8R	30	8	2.5
ZS40/12R	40	12	3
ZS50/16R	50	16	3
ZS63/19R	63	19	3.5
ZS75/22R	75	22	3.5
ZS95/30R	95	30	4
ZS115/34R	115	34	4
ZS140/42R	140	42	5.5
ZS175/55R	175	55	4



RELEVANT STANDARD
EN 60684

Heavy wall versions

3:1/4:1 | Polyolefin | 1m | 12kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV

TRACON	D_1 (mm)	D_2 (mm)	S (mm)
ZSB33/8R	33	8	3.2
ZSB51/16R	51	16	6
ZSB85/25R	85	25	6.5
ZSB130/36R	130	36	6.5
ZSB180/50R	180	50	4.3

ZSB-SET – Heat shrink hobby set

2:1 | Polyolefin | 150 mm | 12kV/mm | Ts min.120°C | To -40..+105°C | Ts -20..+45 °C | NO Halogen | ×15

ZSB-SET

ZSBB-SET

TRACON	×
ZSB-SET	15 ×150 mm
ZSBB-SET	15 ×150 mm

This set is meant to repair insulation defects on wires.

- The kit contains: 15 pcs thin wall shrink tube
- Material: halogen free polyolefin with 2:1 shrinking ratio
- Available: in 150 mm length with different diameters

RELEVANT STANDARD
EN 60684

Pictograms D/0

Heat shrink tube sets, with adhesive

3:1/4:1 | Polyolefin | 1m | 12 kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV

NYY-J, NYY-O, NAYY-J, NAYY-O, NA2XY-J, NA2XY-O, NA2X2Y-J, NA2X2Y-O, SZRMEKM, SZAMEKM

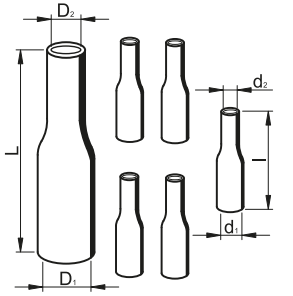
TRACON	mm²	d_1/d_2 (mm)	l (mm)	×	D_1/D_2 (mm)	L (mm)	×
ZSRSET3-1,5	3 × 1.5	8/2	50	3	19/6	200	1
ZSRSET3-2,5	3 × 2.5	8/2	50	3	19/6	250	1
ZSRSET4-1,5	4 × 1.5	8/2	50	4	19/6	200	1
ZSRSET4-2,5	4 × 2.5	8/2	50	4	19/6	250	1
ZSRSET4-4	4 × 4	8/2	100	4	30/8	250	1
ZSRSET4-6	4 × 6	8/2	100	4	30/8	330	1
ZSRSET4-10	4 × 10	12/3	100	4	40/12	500	1
ZSRSET4-16	4 × 16	12/3	200	4	40/12	500	1
ZSRSET4-25	4 × 25	19/6	200	4	50/16	500	1
ZSRSET4-35	4 × 35	19/6	200	4	50/16	1000	1
ZSRSET4-50	4 × 50	19/6	200	4	63/19	1000	1
ZSRSET4-70	4 × 70	30/8	250	4	63/19	1000	1
ZSRSET4-95	4 × 95	30/8	250	4	75/22	1000	1
ZSRSET4-120	4 × 120	30/8	250	4	95/30	1000	1
ZSRSET4-150	4 × 150	40/12	250	4	95/30	1000	1
ZSRSET4-185	4 × 185	40/12	250	4	115/34	1000	1
ZSRSET4-240	4 × 240	40/12	330	4	115/34	1000	1
ZSRSET5-1,5	5 × 1.5	8/2	50	5	19/6	200	1
ZSRSET5-2,5	5 × 2.5	8/2	50	5	19/6	250	1
ZSRSET5-4	5 × 4	8/2	100	5	30/8	250	1
ZSRSET5-6	5 × 6	8/2	100	5	30/8	330	1
ZSRSET5-10	5 × 10	12/3	100	5	40/12	500	1
ZSRSET5-16	5 × 16	12/3	200	5	40/12	500	1
ZSRSET5-25	5 × 25	19/6	200	5	50/16	500	1
ZSRSET5-35	5 × 35	19/6	200	5	50/16	1000	1
ZSRSET5-50	5 × 50	19/6	200	5	63/19	1000	1
ZSRSET5-70	5 × 70	30/8	250	5	63/19	1000	1

The copper or aluminum connectors should be selected on the base of the cable cross section, to be jointed, (not part of the set).

Un-insulated sleeve connector

A/10-A/11

RELEVANT STANDARD
EN 60684



Low voltage joint kits for 0,6/1 kV unshielded cables

3:1/4:1 | Polyolefin | 12 kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV

AYKY, CYKY, AYKE, CYKE, NYY-J,NYY-O, NAYY-J, NAYY-O, YKY, YAKY

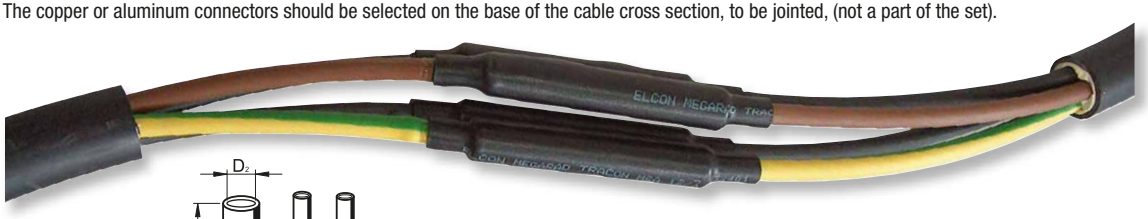
Versions with medium-wall heat shrink outer covering tube

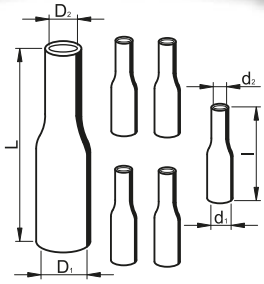
TRACON	mm²	d_1/d_2 (mm)	l (mm)	×	D_1/D_2 (mm)	L (mm)	×
ZSRSET-1	4 × 6 – 4 × 25	12/3	100	4	40/12	500	1
ZSRSET-2A	4 × 25 – 4 × 35	19/6	200	4	50/16	1000	1
ZSRSET-2B	4 × 50 – 4 × 70	30/8	200	4	63/19	1000	1
ZSRSET-2	4 × 35 – 4 × 120	30/8	200	4	75/22	1000	1
ZSRSET-3	4 × 150 – 4 × 240	40/12	250	4	140/42	1000	1
ZSRSET5-1	5 × 6 – 5 × 25	12/3	100	5	40/12	500	1
ZSRSET5-2A	5 × 25 – 5 × 35	19/6	200	5	50/16	1000	1
ZSRSET5-2B	5 × 50 – 5 × 70	30/8	200	5	63/19	1000	1
ZSRSET5-2	5 × 35 – 5 × 120	30/8	200	5	75/22	1000	1
ZSRSET5-3	5 × 150 – 5 × 240	40/12	250	5	140/42	1000	1

Versions with heavy-wall heat shrink outer covering tube

TRACON	mm²	d_1/d_2 (mm)	l (mm)	×	D_1/D_2 (mm)	L (mm)	×
ZSRSET-1FK	4 × 6 – 4 × 25	19/6	150	4	51/16	500	1
ZSRSET-2FK	4 × 35 – 4 × 120	30/8	200	4	85/25	1000	1
ZSRSET-3FK	4 × 150 – 4 × 240	50/16	300	4	130/36	1000	1
ZSRSET5-1FK	5 × 6 – 5 × 25	19/6	150	5	51/16	500	1
ZSRSET5-2FK	5 × 35 – 5 × 120	30/8	200	5	85/25	1000	1
ZSRSET5-3FK	5 × 150 – 5 × 240	50/16	300	5	130/36	1000	1

The copper or aluminum connectors should be selected on the base of the cable cross section, to be jointed, (not a part of the set).





Content of the kit:
instructions for use - 1 item;
outer covering, heavy-wall heat shrink tube with adhesive – 1 item;
core insulating medium-wall heat shrink tube with adhesive – 4 or 5 items;

d_1 – inner diameter of the core insulating heat shrink tube before shrinkage
d_2 – inner diameter of the core insulating heat shrink tube after free shrinkage
D_1 – inner diameter of the outer covering heat shrink tube before shrinkage
D_2 – inner diameter of the outer covering heat shrink tube after free shrinkage

RELEVANT STANDARD
EN 60684

Low voltage, heat shrink straight joint sets for wire-shield cables

3:1/4:1 | Polyolefin | 12 kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV

NYCWY, NAYCWY, AYCWY

Core insulating and outer covering heat shrink tubes

TRACON	mm²	d_1/d_2 (mm)	l (mm)	×	D_1/D_2 (mm)	L (mm)	×
ZSRSET-1DA	4 × 6 – 4 × 25	19/6	150	4	51/16	500	1
ZSRSET-2DA	4 × 35 – 4 × 120	30/8	200	4	85/25	1000	1
ZSRSET-3DA	4 × 150 – 4 × 240	50/16	300	4	130/36	1000	1

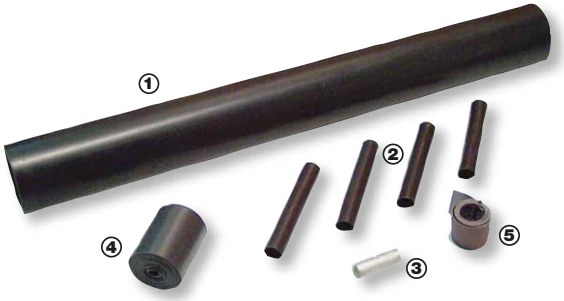
Shielding elements

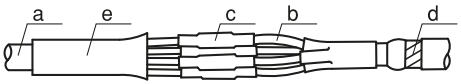
TRACON	Cable cross section (mm²)	Shielding		Space filling up		Other
		Crimping connector cross (mm²)	Quantities	PVC bedding tape sizes (mm)	Qty. of rolls	Emery cloth sizes
ZSRSET-1DA	4 × 6 – 4 × 25	10	1	0.4 × 50 × 5000	1	600 mm × 25 mm
ZSRSET-2DA	4 × 35 – 4 × 120	25-35	2-2	0.4 × 50 × 5000	1	600 mm × 25 mm
ZSRSET-3DA	5 × 150 – 5 × 240	50	1	0.4 × 50 × 5000	1	800 mm × 25 mm

The copper ot aluminium connectors (not included in the set) must be selected based on the cable cross section to be connected.

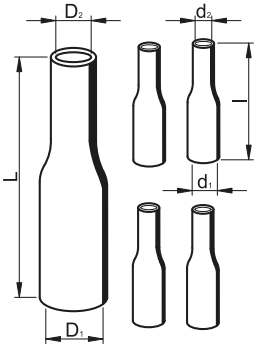
The kit contains:

1 pc outer covering, heavy wall heat shrink tube with adhesive ①
4 pcs core insulating, medium wall, heat shrink tube with adhesive ②
1(2) pc copper, crimping connector for connecting the wire shield ③
1 roll tape for bedding ④
1 pc emery cloth ⑤





a 4 core, wire shield, low-voltage cable
b cable core
c core insulating heat shrink tube
d wire shield
e outer covering heat shrink tube



d_1 – inner diameter of the core insulating heat shrink tube before shrinkage
d_2 – inner diameter of the core insulating heat shrink tube after free shrinkage
D_1 – inner diameter of the outer covering heat shrink tube before shrinkage
D_2 – inner diameter of the outer covering heat shrink tube after free shrinkage

Un-insulated sleeve connector

A/10-A/11

RELEVANT STANDARD
EN 60684

Low voltage, heat shrink straight joint sets for tape-shield cables

3:1/4:1 | Polyolefin | 12 kV/mm | Ts min.120°C | To -55..+125°C | Ts -20..+45 °C | NO Halogen | UV

NYFGY, SZRMKAM, SZAMKAM

Core insulating and outer covering heat shrink tubes

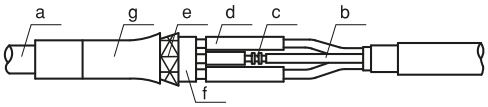
TRACON	mm²	d_1/d_2 (mm)	l (mm)	×	D_1/D_2 (mm)	L (mm)	×
ZSRSET-1DB	4 × 6 – 4 × 25	19/6	150	4	51/16	500	1
ZSRSET-2DB	4 × 35 – 4 × 120	30/8	200	4	85/25	1000	1
ZSRSET-3DB	4 × 150 – 4 × 240	50/16	300	4	130/36	1000	1

Shielding elements

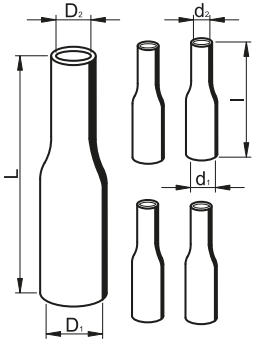
TRACON	Cable cross section (mm²)	Shielding		Space filling up		Other
		Constant force spring	Length of 16 mm² copper shielding	PVC bedding tape sizes (mm)	Qty. of rolls	Emery cloth sizes
ZSRSET-1DB	4 × 6 – 4 × 25	4 pcs TRF1	0.5 m	0.4 × 50 × 5000	1	600 mm × 25 mm
ZSRSET-2DB	4 × 35 – 4 × 120	4 pcs TRF2	0.7 m	0.4 × 50 × 5000	1	600 mm × 25 mm
ZSRSET-3DB	4 × 150 – 4 × 240	4 pcs TRF5	2 × 0.8 m	0.4 × 50 × 5000	1	800 mm × 25 mm

The copper ot aluminium connectors (not included in the set) must be selected based on the cable cross section to be connected.

Pictograms D/0



a 4 core, tape shield, low-voltage cable
b cable core
c core connector
d core insulating heat shrink tube
e tape shield
f constant force spring
g outer covering heat shrink tube



The kit contains:

1 pc outer covering, heavy wall heat shrink tube with adhesive ①
4 pcs core insulating, medium wall, heat shrink tube with adhesive ②
1 pc tinned copper shielding ③
4 pcs constant force spring ④
1 roll tape for bedding ⑤
1 pc emery cloth ⑥

d_1 – inner diameter of the core insulating heat shrink tube before shrinkage
d_2 – inner diameter of the core insulating heat shrink tube after free shrinkage
D_1 – inner diameter of the outer covering heat shrink tube before shrinkage
D_2 – inner diameter of the outer covering heat shrink tube after free shrinkage

RELEVANT STANDARD
EN 60684

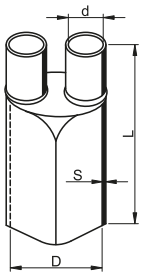
2-way breakouts

PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYY-J, NYY-O, YSLY-JZ

TRACON	mm²	D_{max} (mm)	D_{min} (mm)	d_{max} (mm)	d_{min} (mm)	S (mm)	S* (mm)	L (mm)	L* (mm)
V23012	2 × 4 – 2 × 35	27	5	12	3	1,8	3,8	82	89

D_{max}, d_{max} – max. inner diameter before shrinkage
D_{min}, d_{min} – min. inner diameter after free shrinkage
S – wall thickness before shrinkage
S* – wall thickness after free shrinkage
L – total length before shrinkage
L* – total length after free shrinkage



3-way breakouts

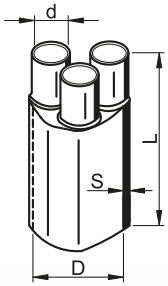
PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYY-J, NYY-O, NAYY-J, NAYY-O, NA2XY-J, NA2XY-O, NA2X2Y-J, NA2X2Y-O, SZRMEKM, SZAMEKM

TRACON	mm²	D_{max} (mm)	D_{min} (mm)	d_{max} (mm)	d_{min} (mm)	S (mm)	S* (mm)	L (mm)	L* (mm)
VE3259	3 × 2.5 – 3 × 10	25	10,5	9	3	2	3	53	68
VE33816	3 × 10 – 3 × 50	36	14	12	3,2	2,2	3,5	100	107
VE38036	3 × 70 – 3 × 240	80	38	31	10	3,8	5	190	195

D_{max}, d_{max} – max. inner diameter before shrinkage
D_{min}, d_{min} – min. inner diameter after free shrinkage
S – wall thickness before shrinkage
S* – wall thickness after free shrinkage
L – total length before shrinkage
L* – total length after free shrinkage

RELEVANT STANDARD
EN 60684



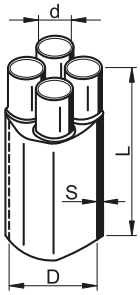
4-way breakouts

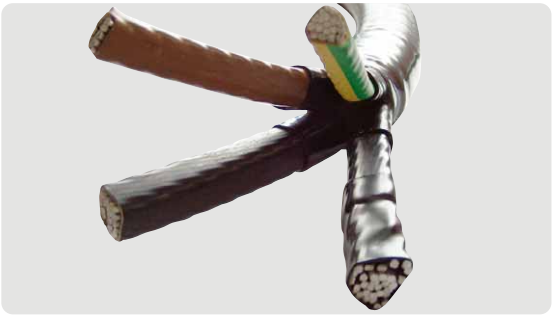
PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYY-J, NYY-O, NAYY-J, NAYY-O, NA2XY-J, NA2XY-O, NA2X2Y-J, NA2X2Y-O, SZRMEKM, SZAMEKM

TRACON	mm²	D_{max} (mm)	D_{min} (mm)	d_{max} (mm)	d_{min} (mm)	S (mm)	S* (mm)	L (mm)	L* (mm)
VE3512	4 × 6 – 4 × 25	35	14	13,5	4	2	3,5	90	100
VE3512C	4 × 6 – 4 × 25	42	15	13	4	2	3,5	95	97
VE4021	4 × 35 – 4 × 50	58	18	20	6	3	5	131	175
VE4021C	4 × 35 – 4 × 50	52	20	19	5,5	2,3	3,8	140	150
VE5527	4 × 70 – 4 × 120	70	24,5	24,5	7	4	6	150	190
VE5527C	4 × 70 – 4 × 120	77	32	27	10	3	4,5	170	190
VE8035	4 × 120 – 4 × 240	97	33	35	15	3	5	170	220
VE8035C	4 × 120 – 4 × 240	85	30	30	9	3	5	175	195
VE10045	4 × 150 – 4 × 300	98	51	35	9	3,8	5	190	200
VE12550	4 × 300	130	49	52	12	3,5	5	238	242

D_{max}, d_{max} – max. inner diameter before shrinkage
D_{min}, d_{min} – min. inner diameter after free shrinkage
S – wall thickness before shrinkage
S* – wall thickness after free shrinkage
L – total length before shrinkage
L* – total length after free shrinkage





Heat gun

TRACON	Un	(W)	°C	m	
HLF-02	230 V AC	1.000/2.000 W	350/600 °C	1450 g	300 / 500 l/min.

B/21

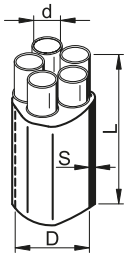
5-way breakouts

PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYY-J, NYY-O, NAYY-J, NAYY-O, NA2XY-J, NA2XY-O, NA2X2Y-J, NA2X2Y-O, SZRMEKM, SZAMEKM

TRACON	mm²	D_{max} (mm)	D_{min} (mm)	d_{max} (mm)	d_{min} (mm)	S (mm)	S* (mm)	L (mm)	L* (mm)
VE54019	5 × 16 – 5 × 35	40	19	13	4	2,7	3,5	89	90
VE55524	5 × 35 – 5 × 70	55	30	16	3,5	3	4	145	160
VE58033	5 × 70 – 5 × 120	80	33	24	10	3	4	165	180
VE510046	5 × 150 – 5 × 240	98	44	31	9	3,5	4	190	200

D_{max}, d_{max} – max. inner diameter before shrinkage
D_{min}, d_{min} – min. inner diameter after free shrinkage
S – wall thickness before shrinkage
S* – wall thickness after free shrinkage
L – total length before shrinkage
L* – total length after free shrinkage



RELEVANT STANDARD
EN 60684

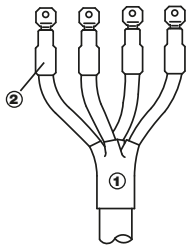
Outdoor terminal kits for 0,6/1 kV unshielded cables

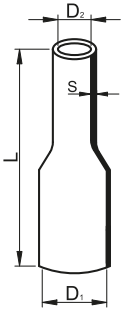
PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYY-J, NYY-O, NAYY-J, NAYY-O, NA2XY-J, NA2XY-O, NA2X2Y-J, NA2X2Y-O, SZRMEKM, SZAMEKM

TRACON	mm²	Breakout (1)		Core insulating heat shrink tube (2)		
		Type	Quantities	D_1/D_2 (mm)	L (m)	Quantities
VE3512-SZ	4 × 6 – 4 × 25	VE3512	1	12.7/6.4	3	1
VE4021-SZ	4 × 35 – 4 × 50	VE4021	1	19/9.5	4	1
VE5527-SZ	4 × 70 – 4 × 120	VE5527	1	25.4/12.7	5	1
VE8035-SZ	4 × 150 – 4 × 240	VE8035	1	38.1/19	8	1

The copper of aluminium connectors (not included in the set) must be selected based on the cable cross section to be connected.





The kit contains:

1 pc 4-way breakout ①

1 roll core insulating, UV-resistant, thin wall heat shrink tube ②

The UV-resistant, thin wall tube, shrunk to the core insulation protects against moisture penetration, too.

Outdoor terminal kits for 0,6/1 kV wire shielded cables with 4 cores

PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYCWY, NAYCWY, AYCWY

Core insulating and outer covering heat shrink tubes

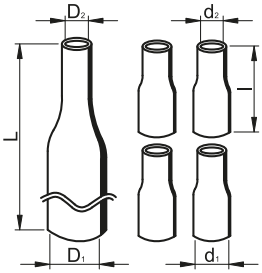
TRACON	Type	Cable cross-section (mm²)	Breakout		Lug insulating tubes			Core insulating tube		
			Type	Qty.	D_1/D_2 (mm)	l (mm)	Qty.	D_1/D_2 (mm)	L (m)	Qty.
ZSVRS-1B1	Indoor	4 × 6 – 4 × 25	VE3512	1	19/6	50	4	-	-	-
ZSVRS-1K1	Outdoor	4 × 6 – 4 × 25	VE3512	1	19/6	50	4	12.7/6.4	2	1
ZSVRS-2B1	Indoor	4 × 35 – 4 × 50	VE4021	1	30/8	50	4	-	-	-
ZSVRS-2K1	Outdoor	4 × 35 – 4 × 50	VE4021	1	30/8	50	4	19/9.5	3	1
ZSVRS-3B1	Indoor	4 × 70 – 4 × 120	VE5527	1	40/12	80	4	-	-	-
ZSVRS-3K1	Outdoor	4 × 70 – 4 × 120	VE5527	1	40/12	80	4	25.4/12.7	4	1
ZSVRS-4B1	Indoor	4 × 150 – 4 × 240	VE8035	1	50/16	100	4	-	-	-
ZSVRS-4K1	Outdoor	4 × 150 – 4 × 240	VE8035	1	50/16	100	4	38.1/19	8	1

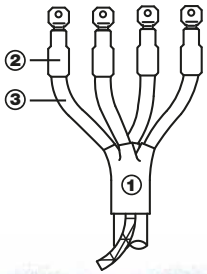
Shielding elements

TRACON	Cable cross-section (mm²)	Space filling up		Other
		Mastic tape type	Length (m)	Emery cloth sizes
ZSVRS-1B1	4 × 6 – 4 × 25	ZSSZOH1,5	1.5	600 mm × 25 mm
ZSVRS-1K1	4 × 6 – 4 × 25	ZSSZOH1,5	1.5	600 mm × 25 mm
ZSVRS-2B1	4 × 35 – 4 × 50	ZSSZOH1,5	1.5	600 mm × 25 mm
ZSVRS-2K1	4 × 35 – 4 × 50	ZSSZOH1,5	1.5	600 mm × 25 mm
ZSVRS-3B1	4 × 70 – 4 × 120	ZSSZOH1,5	1.5	600 mm × 25 mm
ZSVRS-3K1	4 × 70 – 4 × 120	ZSSZOH1,5	1.5	600 mm × 25 mm
ZSVRS-4B1	4 × 150 – 4 × 240	ZSSZOH1,5	1.5	800 mm × 25 mm
ZSVRS-4K1	4 × 150 – 4 × 240	ZSSZOH1,5	1.5	800 mm × 25 mm

The copper of aluminium connectors (not included in the set) must be selected based on the cable cross section to be connected.

D_1, d_1 – max. inner diameter before shrinkage
D_2, d_2 – min. inner diameter after free shrinkage





The kit contains:

1 pc 4-way breakout ①
4 pcs medium wall, lug surface insulating, heat shrink tube with glue ②
1 pc UV-resistant, thin wall insulating tube (only for outdoor versions) ③
1 pc emery cloth ④
1 pc ZSSZOH1,5 type mastic tape ⑤

RELEVANT STANDARD
EN 60684

Outdoor terminal kits for 0,6/1 kV tape shielded cables with 4 cores

PE | 11 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

NYFGY, SZRMKAM, SZAMKAM

Core insulating and outer covering heat shrink tubes

TRACON	Type	Cable cross-section (mm²)	Breakout		Lug insulating tubes			Core insulating tube		
			Type	Qty.	D_1/D_2 (mm)	l (mm)	Qty.	D_1/D_2 (mm)	L (m)	Qty.
ZSVRS-1B2	Indoor	4 × 6 – 4 × 25	VE3512	1	19/6	50	4	-	-	-
ZSVRS-1K2	Outdoor	4 × 6 – 4 × 25	VE3512	1	19/6	50	4	12.7/6.4	2	1
ZSVRS-2B2	Indoor	4 × 35 – 4 × 50	VE4021	1	30/8	50	4	-	-	-
ZSVRS-2K2	Outdoor	4 × 35 – 4 × 50	VE4021	1	30/8	50	4	19/9.5	3	1
ZSVRS-3B2	Indoor	4 × 70 – 4 × 120	VE5527	1	40/12	80	4	-	-	-
ZSVRS-3K2	Outdoor	4 × 70 – 4 × 120	VE5527	1	40/12	80	4	25.4/12.7	4	1
ZSVRS-4B2	Indoor	4 × 150 – 4 × 240	VE8035	1	50/16	100	4	-	-	-
ZSVRS-4K2	Outdoor	4 × 150 – 4 × 240	VE8035	1	50/16	100	4	38.1/19	8	1

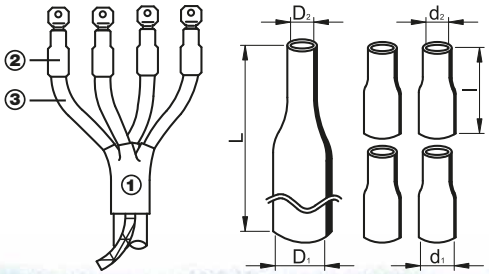
Shielding elements

TRACON	Cable cross-section (mm²)	Shielding		Space filling up		Other
		Constant force spring (mm²)	16mm² copper mesh length	Mastic tape type	Length (m)	Emery cloth sizes
ZSVRS-1B2	4 × 6 – 4 × 25	2 pcs TRF1	1 pc 0.7 m	ZSSZOH1,5	1	600 mm × 25 mm
ZSVRS-1K2	4 × 6 – 4 × 25	2 pcs TRF1	1 pc 0.7 m	ZSSZOH1,5	1	600 mm × 25 mm
ZSVRS-2B2	4 × 35 – 4 × 50	2 pcs TRF2	1 pc 0.7 m	ZSSZOH1,5	1	600 mm × 25 mm
ZSVRS-2K2	4 × 35 – 4 × 50	2 pcs TRF2	1 pc 0.7 m	ZSSZOH1,5	1	600 mm × 25 mm
ZSVRS-3B2	4 × 70 – 4 × 120	2 pcs TRF4	1 pc 0.7 m	ZSSZOH1,5	1	600 mm × 25 mm
ZSVRS-3K2	4 × 70 - 4 × 120	2 pcs TRF4	1 pc 0.7 m	ZSSZOH1,5	1	600 mm × 25 mm
ZSVRS-4B2	4 × 150 – 4 × 240	2 pcs TRF5	2 pcs 0.7 m	ZSSZOH1,5	1	800 mm × 25 mm
ZSVRS-4K2	4 × 150 – 4 × 240	2 pcs TRF5	2 pcs 0.7 m	ZSSZOH1,5	1	800 mm × 25 mm

The copper of aluminium connectors (not included in the set) must be selected based on the cable cross section to be connected.

The kit contains:

1 pc 4-way breakout ①
4 pcs medium wall, lug surface insulating, heat shrink tube with glue ②
1 pc UV-resistant, thin wall insulating tube (only for outdoor versions) ③
1 pc emery cloth ④
1 pc ZSSZOH1,5 type mastic tape ⑤
1 pc copper mesh ⑥
2 pcs constant force spring ⑦



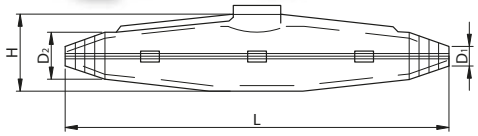
RELEVANT STANDARD
EN 60684

Straight resin-filled jointing kits

PE | 20kV/mm | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

Pictograms D/0

TRACON	mm²	L (mm)	H (mm)	D_1 (mm)	D_2 (mm)
KET-1,5-10	4 × 1.5 – 4 × 10	210	36	8	26
KET-6-25	4 × 6 – 4 × 35	260	47	16	34
KET-16-50	4 × 25 – 4 × 70	360	55	21	43
KET-50-95	4 × 50 – 4 × 120	400	70	26	48
KET-70-150	4 × 70 – 4 × 150	530	100	35	63
KET-150-300	4 × 150 – 4 × 300	700	125	47	81



Composition of the kit:

- PET housing composed of two halves;
- two-component resin with plastic partitioning element, in laminated (5 layers) aluminium bag;
- PVC strap;
- abrasive fabric;
- polyethylene (PE) glove;
- dielectric towel;
- instructions for use.

Instructions for choice in function of the number of wires and cross section of the cables to be connected

TRACON	KET-1,5-10	KET-6-25	KET-16-50	KET-50-95	KET-70-150	KET-150-300
3× (mm²)	3 × 4 3 × 6 3 × 10 3 × 16	3 × 10 3 × 16 3 × 25 3 × 35	3 × 25 3 × 35 3 × 50 3 × 70	3 × 50 3 × 70 3 × 95 3 × 120	3 × 120 3 × 150 3 × 185	3 × 240
4× (mm²)	4 × 1.5 4 × 2.5 4 × 4 4 × 6 4 × 10	4 × 6 4 × 10 4 × 16 4 × 25 4 × 35	4 × 25 4 × 35 4 × 50 4 × 70	4 × 50 4 × 70 4 × 95 4 × 120	4 × 70 4 × 95 4 × 120 4 × 150	4 × 150 4 × 185 4 × 240 4 × 300
5× (mm²)	5 × 1.5 5 × 2.5 5 × 4 5 × 6 5 × 10	5 × 4 5 × 6 5 × 10 5 × 16 5 × 25	5 × 16 5 × 25 5 × 35 5 × 50	5 × 25 5 × 35 5 × 50	5 × 50	–

RELEVANT STANDARD
EN 50393

Y-shaped resin-filled jointing kits

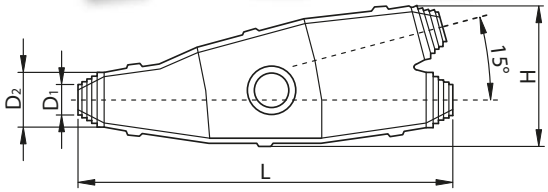
PE | 20 kV/mm | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

Pictograms D/0

TRACON	(mm²)	(mm²)	D_1 (mm)	D_2 (mm)	L (mm)	H (mm)
KYT-2,5	4 × 1.5 – 2.5	4 × 1.5	11	20	150	50
KYT-4-10	4 × 4 – 10	4 × 4	6	21	175	60
KYT-6-25	4 × 6 – 25	4 × 16	9	24	225	70

Composition of the kit:

- PET housing composed of two halves;
- partitioning sheet for the jointing elements;
- two-component resin with plastic partitioning element, in laminated (5 layers) aluminium bag;
- PVC strap;
- abrasive fabric;
- polyethylene (PE) glove;
- dielectric towel;
- instructions for use.



RELEVANT STANDARD
EN 50393

Two-component filler resin

TRACON	ml	m	t	To		
KGY-80	80 ml	120 g	24 / 3 / 1 hour (5 / 23 / 35 °C)	5...60 °C	360 mg	20 kV
KGY-150	150 ml	197 g			400 mg	
KGY-464	464 ml	547 g	24 / 3 / 1 hour (5 / 23 / 35 °C)	5...60 °C	400 mg	20 kV

The resin preserves its quality for 48 months at temperatures between 15 °C and 35 °C, if not mixed with the hardener.

The component will mix and form a soft paste after removing the separating plastic element. The paste will harden in few minutes. The obtained resin is waterproof and provides insulation protection up to 1kV.

Colour: black.

Screw branch joint terminal

The YCSK screw terminal family has been designed for branch connection of low voltage cables. The stripped main wire is slipped into the groove of the screw rod without cutting the main cable into two pieces. The stripped branch wire(s) must be placed between the main wire and the groove's closed end. The branch wire(s) size must be the same or smaller than the main wire one.

A/13

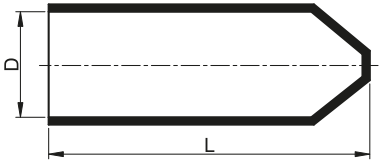
End caps

2:1/3:1 | PE | 12 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

Pictograms D/0

TRACON	4× (mm²)	3× (mm²)	1× (mm²)	D_{max} (mm)	D_{min} (mm)	L (mm)	L* (mm)
VES124	1 kV: 4×1,5	–	–	11.5	4	38	39
VES208	1 kV: 4×2,5 – 4×25	–	–	26	8	75	69
VES3515	1 kV: 4×35 – 4×70	10-30 kV: 3×50 – 3×120	10-30 kV: 1×50 – 1×120	35	15	110	106
VES5524	1 kV: 4×95 – 4×185	10-30 kV: 3×150 – 3×400	10-30 kV: 1×150 – 1×400	55	24	110	110
VES7533	1 kV: 4×240 – 4×300	20-35 kV: 3×185 – 3×300	20-35 kV: 1×185 – 1×300	74	35	130	120
VES10058	–	120-132 kV: 3×185 – 3×300	120-132 kV: 1×185 – 1×300	100	50	160	135

D_{max} – max. inner diameter before shrinkage
D_{min} – min. inner diameter after free shrinkage
L – total length before shrinkage
L* – total length after free shrinkage



Wrap-around sleeves

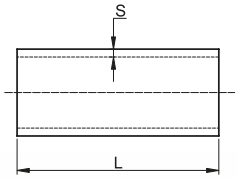
2:1/3:1 | PE | 14 kV/mm | Ts min.135°C | To -55..+100°C | Ts -20..+45 °C | NO Halogen | UV

Pictograms D/0

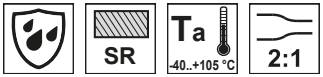
TRACON	mm²	D_{max} (mm)	D_{min} (mm)	S (mm)	S* (mm)	L (mm)
ZSJR50/05	4 × 6 – 4 × 25	50	15	1.1	3.3	500
ZSJR50/1	4 × 6 – 4 × 25	50	15	1.1	3.3	1000
ZSJR50/15	4 × 6 – 4 × 25	50	15	1.1	3.3	1500
ZSJR75/05	4 × 35 – 4 × 120	75	22	1.2	3.5	500
ZSJR75/1	4 × 35 – 4 × 120	75	22	1.2	3.5	1000
ZSJR75/22	4 × 35 – 4 × 120	75	22	1.2	3.5	1500
ZSJR146/05	4 × 150 – 4 × 240	146	38	1.2	3.5	500
ZSJR146/1	4 × 150 – 4 × 240	146	38	1.2	3.5	1000
ZSJR146/38	4 × 150 – 4 × 240	146	38	1.2	3.5	1500
ZSJR180/05	4 × 185 – 4 × 300	180	50	1.5	3.2	500
ZSJR180/1	4 × 185 – 4 × 300	180	50	1.5	3.2	1000
ZSJR180/15	4 × 185 – 4 × 300	180	50	1.5	3.2	1500

S – wall thickness before shrinkage
S* – wall thickness after free shrinkage

RELEVANT STANDARD
EN 60684

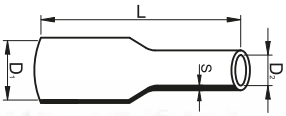


Cold shrink tube



TRACON	D1 (mm)	D2 (mm)	S (mm)	L (mm)
HZS28-100	28	12	2,5	100
HZS36-100	36	19	2,5	100
HZS54-100	54	32	2,5	100
HZS92-100	92	39	3,0	100
HZS105-100	105	45	3,0	100
HZS28-200	28	12	2,5	200
HZS36-200	36	19	2,5	200
HZS54-200	54	32	2,5	200
HZS92-200	92	39	3,0	200
HZS105-200	105	45	3,0	200
HZS28-400	28	12	2,5	400
HZS36-400	36	19	2,5	400
HZS54-400	54	32	2,5	400
HZS92-400	92	39	3,0	400
HZS105-400	105	45	3,0	400

Silicone based cold shrink insulation pipes for insulating electrical connections. Thanks to the technology, it provides a flexible joint closure, no special tools or flames are required to shrink it. By unwinding the support spiral, the pipe shrinks on the prepared cable, and due to its constant clamping force, it also provides excellent watertightness.



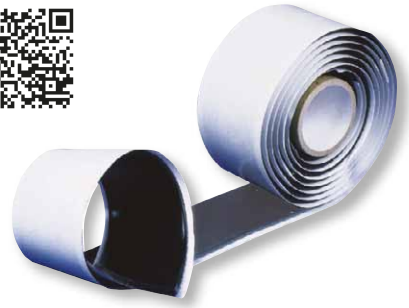
ZSSZR5 type copper mesh

They are used to rebuild the cable shield in terminations and joints. Equally appropriated for low or medium voltage kits.

Size: 5 m × 30 mm × 0,4 mm

Test	Data	Test method
Elongation	min. 70%	ASTM D412
Tensile strength	min. 35 N/10 mm^2	ASTM D412
Volume resistance	min. 0.3 Ωcm	ASTM D257

ZSSZOH1,5 type filling and sealing tape



Component for the medium voltage terminals and connection kits to increase the insulations protection against moisture.
Size: 1,5 m × 38 mm × 3 mm
Color: black

Test	Data	Test method
Elongation	min. 1000%	ASTM D412
Tensile strength	min. 3 N/10 mm^2	ASTM D412
Volume resistance	min. 10^{14} Ωcm	ASTM D257
Dielectric strength	min. 3 kV/mm	ASTM D149

ZSSZVM-1 type mastic tape

It is a component of the medium voltage terminal and joint kits. To be used in the medium voltage terminations and joints for filling out space and stress control
Size: 1,5 m × 25 mm × 0,8 mm
Color: red

Test	Data	Test method
Density	1.3 g/cm^3	UNI 7092
Dielectric strength	min. 15 kV/mm	UNI 4291
Volume resistance	min. 1 × 10^{12} Ωcm	UNI 4288

Constant force spring

D_{min}: Smallest diameter to restrain safely

To be used in low and medium voltage termination and joint kits, to fix the copper braid to the tape shielding of the cables.

TRACON	D_{min} (mm)	D_{max} (mm)	Thickness (mm)
TRF0	12	19	0.2
TRF1	17	22	0.2
TRF2	19	29	0.2
TRF3	25	37	0.3
TRF4	31	50	0.3
TRF5	44	70	0.3
TRF6	58	94	0.4
TRF7	60	130	0.4

TRACON HARMONY

CHRISTMAS DECORATION