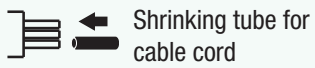


Pictograms of the table heads



Shrinking tube for cable cord



Outer jacket covering tube



Main



Side



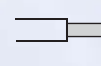
Hardening time



Volume



Water uptake
(42 days at 50 °C)



mm² Terminal capacity



3x Three wires



Weight

Pictograms of the technical data



Shrinking ratio



Length



Material: Polyethylene



Ambient temperature



Material: Polyolefin



Flammability
according to UL94



Storage temperature



Halogen-free



Dielectric strength



Shrinking temperature

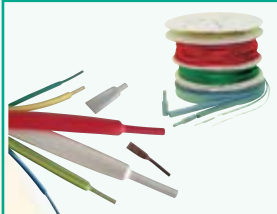


UV-proof



The set contains





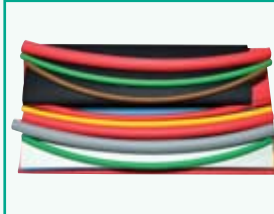
Thin wall heat shrink tubes with 2:1 shrink ratio **2**



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



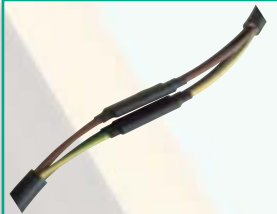
Medium and heavy wall heat shrink tubes **4**



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**



5-way breakouts **10**



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**



End caps **14**



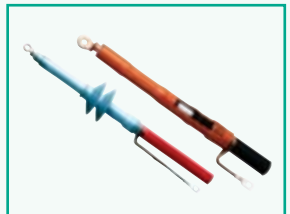
Wrap-around sleeves **15**



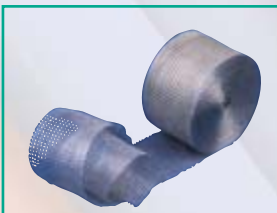
Straight resin-filled jointing kits **16**



Y-shaped resin-filled jointing kits **17**



Cable connection and terminal set for medium voltage **18**



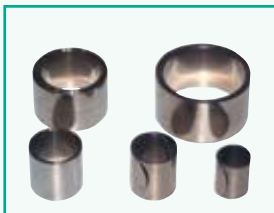
ZSSZR5 type copper mesh **19**



ZSSZOH 1,5 type filling and sealing tape **19**



ZSSZVM-1 type mastic tape **19**



Constant force spring **19**

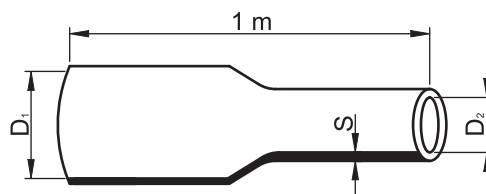
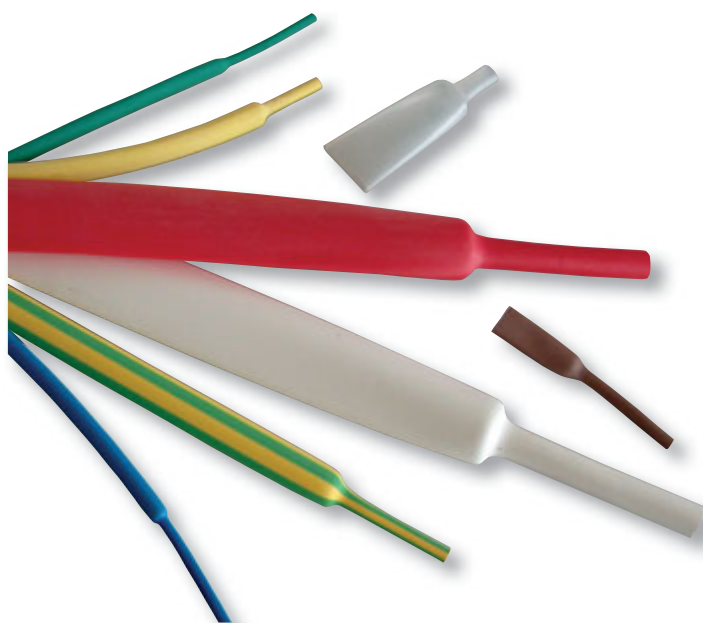


Thin wall heat shrink tubes with 2:1 shrink ratio, without adhesive



TRACON											D ₁ (mm)	D ₂ (mm)	S (mm)
ZS016	ZS016SZ	–	ZS016K	–	ZS016P	ZS016S	ZS016Z	ZS016FEH	–	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

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TÜV MEEI TEST DOCUMENTATION
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Fields of application

- Electrical insulation of cables and wires
- Correction of insulation defects of wires
- Corrosion protection of wires and cables
- Waterproof protection and protection against weathering for cables and wires
- 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



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



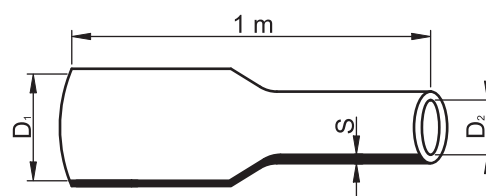
TRACON	D ₁ (mm)	D ₂ (mm)	S (mm)
ZSVR30	3	1	1
ZSVR48	4.8	1.6	1
ZSVR60	6	2	1
ZSVR90	9	3	1.4
ZSVR120	12	4	1.6
ZSVR190	19	6	2.15
ZSVR240	24	8	2.4
ZSVR390	39	13	2.4



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Medium and heavy wall heat shrink tubes, with adhesive

Medium wall versions



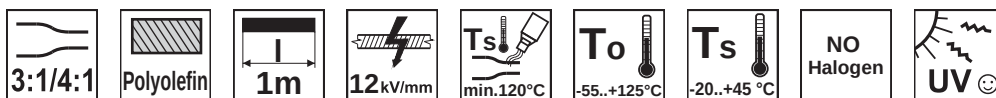
TRACON	D ₁ (mm)	D ₂ (mm)	S (mm)
ZS8/2R	8	2	1.7
ZS12/3R	12	3	1.5
ZS16/4R	16	4	2
ZS19/6R	19	6	2.5
ZS30/8R	30	8	2.5
ZS40/12R	40	12	3
ZS50/16R	50	16	3
ZS63/19R	63	19	3.5
ZS75/22R	75	22	3.5
ZS95/30R	95	30	4
ZS115/34R	115	34	4
ZS140/42R	140	42	5.5
ZS175/55R	175	55	4

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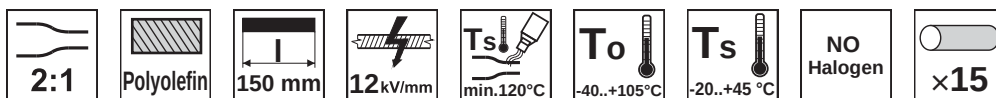
Heavy wall versions



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



TRACON

x15

ZSB-SET

x15 mm

This set is meant to repair insulation defects on wires.

- Material: halogen free polyolefin
- The set contains: 15 pcs thin wall heat shrink tube
- Available: in 150 mm pieces, with different sizes and color

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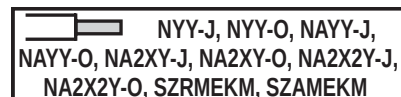


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Heat shrink tube sets, with adhesive



TRACON	mm ²	d ₁ /d ₂ (mm)	l (mm)	X	D ₁ /D ₂ (mm)	L (mm)	X
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

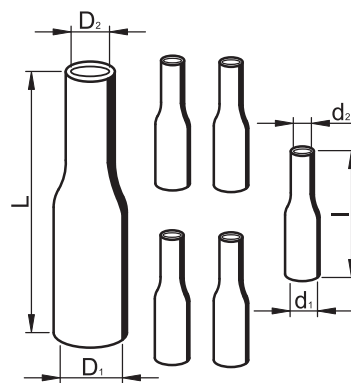


A/9-A/10

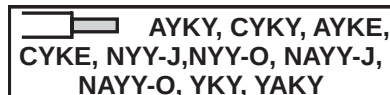


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Low voltage joint kits for 0,6/1 kV unshielded cables



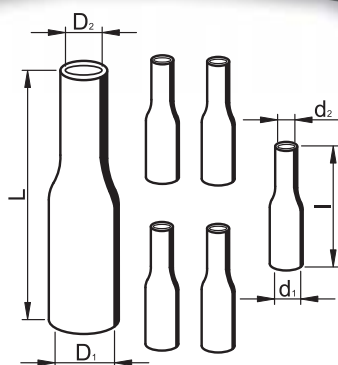
Versions with medium-wall heat shrink outer covering tube

TRACON	mm ²						
		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	mm ²						
		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;

d₁ – inner diameter of the core insulating heat shrink tube before shrinkage
d₂ – inner diameter of the core insulating heat shrink tube after free shrinkage
D₁ – inner diameter of the outer covering heat shrink tube before shrinkage
D₂ – inner diameter of the outer covering heat shrink tube after free shrinkage

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



NYCWY, NAYCWY, AYCWY

Core insulating and outer covering heat shrink tubes

TRACON	mm ²	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

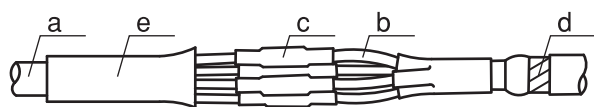
Shielding elements

TRACON	Cable cross section (mm ²)	Shielding		Space filling up		Other
		Crimping connector cross (mm ²)	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

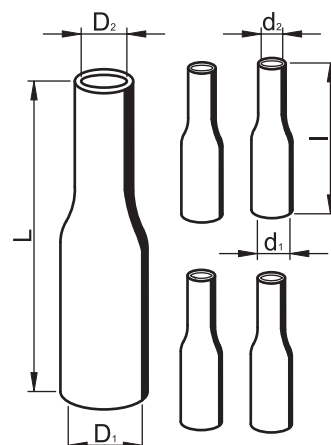
The copper or aluminum connectors should be selected on the base of the cable cross section, to be jointed, (not a part of the set).

The kit contains:

- 1 pc list of components
- 1 pc mounting instruction
- 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



- d₁ – inner diameter of the core insulating heat shrink tube before shrinkage
- d₂ – inner diameter of the core insulating heat shrink tube after free shrinkage
- D₁ – inner diameter of the outer covering heat shrink tube before shrinkage
- D₂ – inner diameter of the outer covering heat shrink tube after free shrinkage

Un-insulated sleeve connector



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



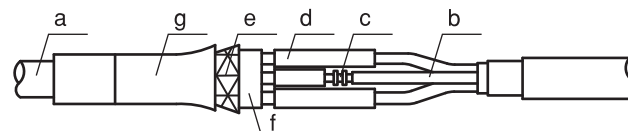
Core insulating and outer covering heat shrink tubes

TRACON	mm ²						
		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

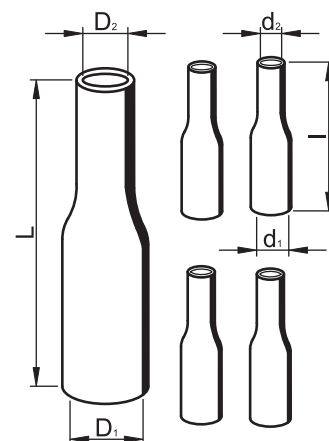
Shielding elements

TRACON	Cable cross section (mm ²)	Shielding		Space filling up		Other
		Constant force spring	Length of 16 mm ² copper shielding	PVC bedding tape sizes (mm)	Qty. of rolls	
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 or aluminum connectors should be selected on the base of the cable cross section, to be jointed, (not a part of the set)



- 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 list of components
- 1 pc mounting instruction
- 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

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- d₁ – inner diameter of the core insulating heat shrink tube before shrinkage
- d₂ – inner diameter of the core insulating heat shrink tube after free shrinkage
- D₁ – inner diameter of the outer covering heat shrink tube before shrinkage
- D₂ – inner diameter of the outer covering heat shrink tube after free shrinkage

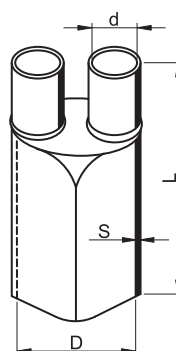
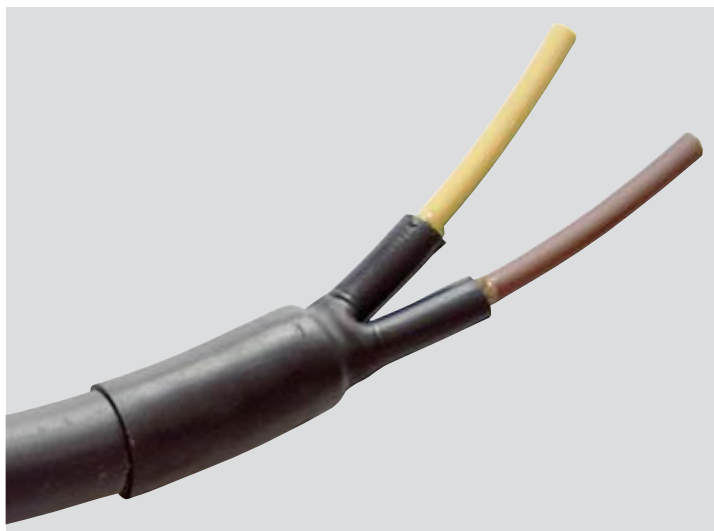
2-way breakouts



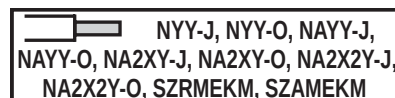
TRACON	mm ²	D _{max} (mm)	D _{min} (mm)	d _{max} (mm)	d _{min} (mm)	S (mm)	S* (mm)	L (mm)	L* (mm)
V23012	2 × 4 – 2 × 35	30	9	15	4	1	2	90,8	80,5

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



TRACON	mm ²	D _{max} (mm)	D _{min} (mm)	d _{max} (mm)	d _{min} (mm)	S (mm)	S* (mm)	L (mm)	L* (mm)
VE33816	3 × 10 – 3 × 50	38	17	14	4,5	2,7	2,7	98	97
VE38036	3 × 70 – 3 × 240	80	38	35	11	2,8	3,5	185	180

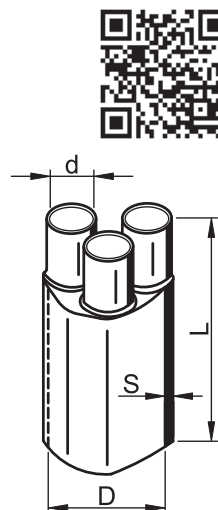
D_{max}, d_{max} – max. inner diameter before shrinkage
D_{min}, d_{min} – min. inner diameter after free shrinkage
S – wall thickness before shrinkage
S* – wall thickness after free shrinkage

L – total length before shrinkage
L* – total length after free shrinkage



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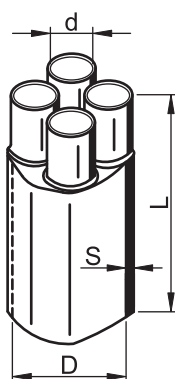
4-way breakouts



TRACON	mm ²	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	42	15	14	3,5	2	2,2	105	80
VE4021	4 × 35 – 4 × 50	55	21	20	5	2,6	3,1	150	105
VE5527	4 × 70 – 4 × 120	75	26	28	7	2,9	3,3	175	120
VE8035	4 × 120 – 4 × 240	90	37	32	9	3	4	190	120
VE10045	4 × 150 – 4 × 300	102	47	38	9	3	4	198	120
VE12550	4 × 300	130	52	52	15	4	4	240	150

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



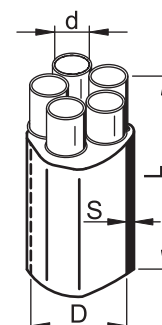
5-way breakouts



TRACON	mm ²	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	2,5	105	98
VE55524	5 × 35 – 5 × 70	55	24	18	5	2	3,2	160	155
VE58033	5 × 70 – 5 × 120	80	33	16	8	2,1	3	180	175
VE510046	5 × 150 – 5 × 240	98	49	34,5	11	2,4	3,5	190	186

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



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TÜV MEEI TEST DOCUMENTATION
K-08384

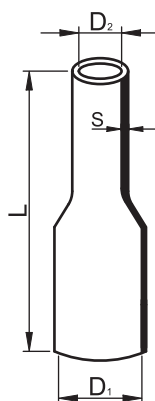
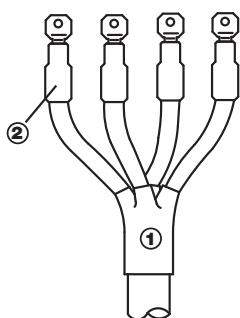
Outdoor terminal kits for 0,6/1 kV unshielded cables



NY-Y-J, NY-Y-O, NAYY-J,
NAYY-O, NA2XY-J, NA2XY-O, NA2X2Y-J,
NA2X2Y-O, SZRMEKM, SZAMEKM

TRACON	mm ²	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 or aluminum cable lugs should be selected on the base of the cable cross section, to be jointed, (not a part of the set).



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.

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M0353V062



Key to electricity

TRACON ELECTRIC®

Tracon Key to electricity



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



NYCWY, NAYCWY, AYCWY

Core insulating and outer covering heat shrink tubes

TRACON	Type	Cable cross-section (mm ²)	Breakout		Lug insulating tubes			Core insulating tube		
			Type	Qty.	D ₁ /D ₂ (mm)	I (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

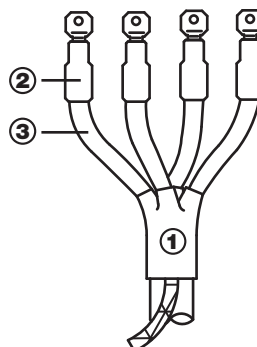
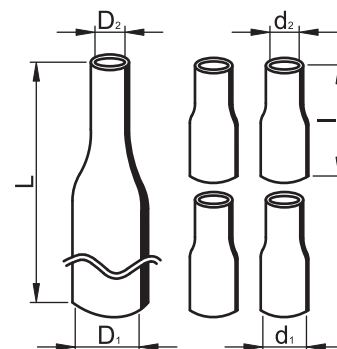
Shielding elements

TRACON	Cable cross-section (mm ²)	Space filling up		Other
		Mastic tape type	Length (m)	
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 or aluminum cable lugs should be selected on the base of the cable cross section, to be jointed, (not a part of the set).



D₁, d₁ – max. inner diameter before shrinkage
D₂, d₂ – min. inner diameter after free shrinkage



The kit contains:

- 1 pc list of components
- 1 pc mounting instruction
- 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

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TÜV MEEI TEST DOCUMENTATION
V-10238

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



Core insulating and outer covering heat shrink tubes

TRACON	Type	Cable cross-section (mm ²)	Breakout		Lug insulating tubes			Core insulating tube		
			Type	Qty.	D ₁ /D ₂ (mm)	I (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

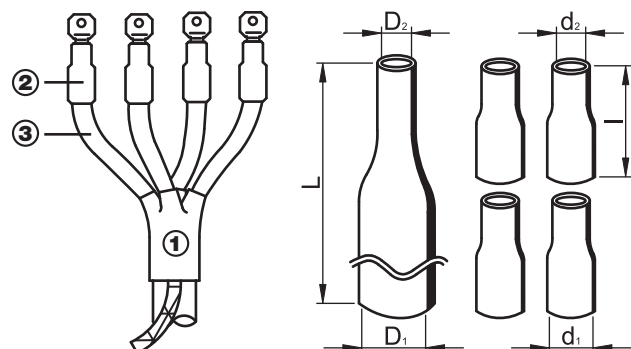
Shielding elements

TRACON	Cable cross-section (mm ²)	Shielding		Space filling up		Other
		Constant force spring (mm ²)	16mm ² copper mesh length	Mastic tape type	Length (m)	
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 or aluminum cable lugs should be selected on the base of the cable cross section, to be jointed, (not a part of the set).

The kit contains:

- 1 pc list of components
- 1 pc mounting instruction
- 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



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TÜV MEEI TEST DOCUMENTATION
V-10238



End caps



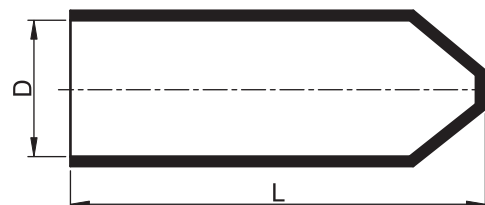
Pictograms

D/O

TRACON	 4x (mm ²)	 3x (mm ²)	 1x (mm ²)	D _{max} (mm)	D _{min} (mm)	L (mm)	L* (mm)
VES124	1 kV: 4×4-4×6	-	-	19	4	40	35
VES208	1 kV: 4×10-4×50	-	-	28	8	75	69
VES3515	1 kV: 4×70-4×185	10-30 kV: 3×50-3×120	10-30 kV: 1×50-1×120	40	20	110	100
VES5524	1 kV: 4×240-4×300	10-30 kV: 3×150-3×400	10-30 kV: 1×150-1×400	60	30	110	100
VES7533	1 kV: 4×500-4×630	20-35 kV: 3×185-3×300	20-35 kV: 1×185-1×300	80	40	130	110
VES10058	-	120-132 kV: 3×185-3×300	120-132 kV: 1×185-1×300	100	50	160	130



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



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- Check our new products
- Be updated

Our assortment is expanding quickly and continuously! Our catalogue shows the assortment of January 2017.
Be up to date by our web page!

Wrap-around sleeves



Pictograms

D/O

TRACON	mm ²	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



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Advantages and main applications of break-off head connection technology

- These items are equally suited for low and medium voltage connector kits.
- Quick installation is enabled, even in difficultly accessible places.
- No crimping or pressing tools are needed for installation.



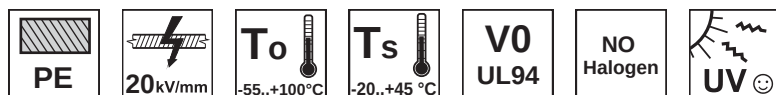
Repairs and cable installation in low-voltage networks



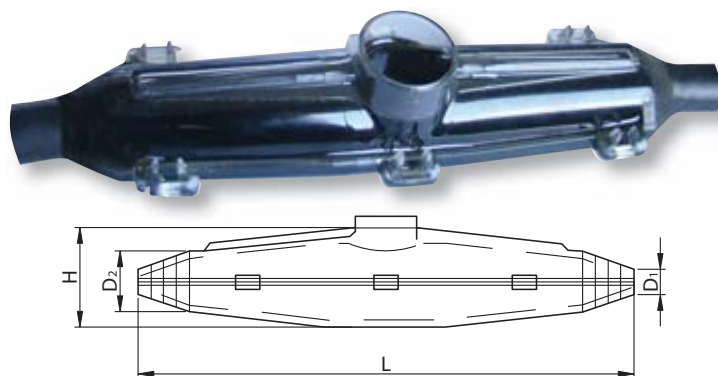
Installation of medium-voltage connection kits and termination kits



Straight resin-filled jointing kits



TRACON	 mm ²	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× (mm ²)	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× (mm ²)	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× (mm ²)	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	



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Y-shaped resin-filled jointing kits



Pictograms

D/O

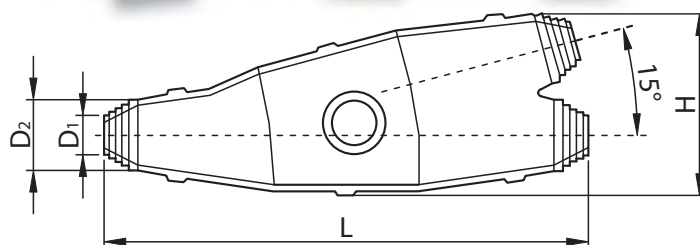
TRACON	 (mm ²)	 (mm ²)	D ₁ (mm)	D ₂ (mm)	L (mm)	H (mm)
KYT-2,5	4 × 1.5 – 2.5	4 × 1.5	11	20	150	50
KYT-4-10	4 × 4 – 10	4 × 4	6	21	175	60
KYT-6-25	4 × 6 – 25	4 × 16	9	24	225	70

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.



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Two-component filler resin

TRACON	ml	g	t	To		
KGY-80	80 ml	157 g	35 / 20 / 15 min. (5 / 23 / 35 °C)	5...60 °C	360 mg	20 kV
KGY-150	150 ml	261 g	35 / 20 / 15 min. (5 / 23 / 35 °C)	5...60 °C	400 mg	20 kV
KGY-464	464 ml	806 g	35 / 20 / 15 min. (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.

After removal of the separating plastic element, upon mixing the components will form a soft paste, which however will cure in a few minutes' time. The cured resin is waterproof and offers electric insulation up to 1 kV.

Colour: black.



Screw branch joint terminal

The YCSK screw terminal family was designed especially for branch joints of low voltage cables. The stripped main wire can be slip into the groove of screw rod without cutting the main cable in two pieces. The stripped branch wire(s) have to be placed between the main wire and the closed end of groove. The size of branch wire(s) can be the same or smaller as the main wire.



A/13

Cable connection and terminal set for medium voltage

Cable installation and maintenance techniques for medium-voltage circuits are a special domain.

We offer to our partners kits adapted to nearly all jobs encountered in practical operations.

For special requirements, individual kits can be assembled upon agreement.

See details of our offer on the website www.tracon.com



MZSEK types, medium voltage, single core, straight joint kits for 12-36 kV.

Heat shrinkable, straight joint kits for single-core, XLPE insulated, wire or tape screened cables (e.g. N2XSY, 2XSY, NA2XSY, A2XSY, NA2XS2Y, A2XS2Y types) with aluminum or copper conductor, without connectors.

Size:

12 kV: 1 × 16 – 630 mm ²	17.5 kV: 1 × 25 – 630 mm ²	24 kV: 1 × 25 – 630 mm ²	36 kV: 1 × 25 – 630 mm ²
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HZSEK type, medium voltage, cold shrink, single core, straight joint kit for 17,5-36 kV.

Cold shrinkable, straight joint kits for single-core, XLPE insulated, wire or tape screened cables (e.g. N2XSY, 2XSY, NA2XSY, A2XSY, NA2XS2Y, A2XS2Y types) with aluminum or copper conductor, without connectors.

The difference between the heat shrinking and the cold shrinking technologies is, that at heat shrinking joints we have to use heat gun to shrink the tubes on the conductor, but at the cold shrinking joints the shrinking happens after pulling out the shape-holding spiral from the tube wall.

Size:

17.5 kV: 1 × 35 – 400 mm ²	24 kV: 1 × 25 – 400 mm ²	36 kV: 1 × 35 – 400 mm ²
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MZSVGK type, medium voltage, heat shrink, transition joints up to 12-36 kV

Heat shrink, medium voltage, transition joints:

- I. / 1 pc three-core, lead sheathed and paper insulated cable and
- II. / 3 pcs single-core, XLPE insulated, wire or tape screened cable,
with aluminum or copper conductor (e.g. SZAPKOV and N(A)2XSY, (A)2XSY, (N)A2XS2Y types).

Size:

12 kV: 3 × (1) × 25 – 400 mm ²	17.5 kV: 3 × (1) × 25 – 400 mm ²	24 kV: 3 × (1) × 25 – 400 mm ²	36 kV: 3 × (1) × 35 – 400 mm ²
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MZSVB type, medium voltage, heat shrink, single-core termination kits up to 36 kV, for indoor use.

Heat shrinkable, indoor terminal kits for single-core, XLPE insulated, wire or tape screened cables (e.g. N2XSY, 2XSY, NA2XSY, A2XSY, NA2XS2Y, A2XS2Y types) with aluminum or copper conductor, without connectors. The kit contains three, single core terminals. The kit contains one, single-core termination.

Size:

12 kV: 3 × (1) × 25 – 630 mm ²	17.5 kV: 3 × (1) × 25 – 630 mm ²	24 kV: 3 × (1) × 25 – 630 mm ²	36 kV: 3 × (1) × 25 – 630 mm ²
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MZSVK type, medium voltage, heat shrink, single-core termination kits up to 36 kV, for outdoor use.

Heat shrinkable, outdoor termination kits for single-core, XLPE insulated, wire or tape screened cables (e.g. N2XSY, 2XSY, NA2XSY, A2XSY, NA2XS2Y, A2XS2Y types) with aluminum or copper conductor, without connectors. The kit contains one, single-core termination.

Size:

12 kV: 1 × 25 – 630 mm ²	17.5 kV: 1 × 25 – 630 mm ²	24 kV: 1 × 25 – 630 mm ²	36 kV: 1 × 25 – 630 mm ²
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HZSVB type, medium voltage, cold shrink, single-core termination kits from 12 to 36 kV for indoor use

Cold shrinkable, indoor termination kits termination kits for single-core, XLPE or EPR insulated, wire or tape screened cables (e.g. N2XSY, 2XSY, NA2XSY, A2XSY, NA2XS2Y, A2XS2Y types) with aluminum or copper conductor, for indoor use. The kit contains three, single core terminations

Size:

12 kV: 3 × (1) × 25 – 630 mm ²	17.5 kV: 3 × (1) × 25 – 630 mm ²	24 kV: 3 × (1) × 25 – 630 mm ²	36 kV: 3 × (1) × 35 – 400 mm ²
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HZSVK type, medium voltage, cold shrink, single-core termination kits, 12 to 24 kV for outdoor use.

Cold shrinkable, outdoor termination kits termination kits for single-core, XLPE or EPR insulated, wire or tape screened cables (e.g. N2XSY, 2XSY, NA2XSY, A2XSY, NA2XS2Y, A2XS2Y types) with aluminum or copper conductor, for outdoor use.

Size:

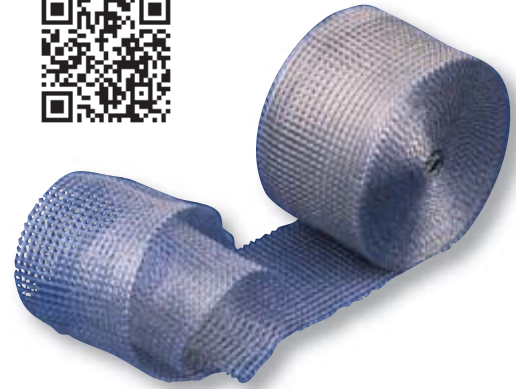
12 kV: 1 × 25 – 630 mm ²	17.5 kV: 1 × 25 – 630 mm ²	24 kV: 1 × 25 – 630 mm ²	36 kV: 1 × 35 – 400 mm ²
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ZSSZR5 type copper mesh

They are used to rebuild the cable shield in terminations and joints. Equally appropriate 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



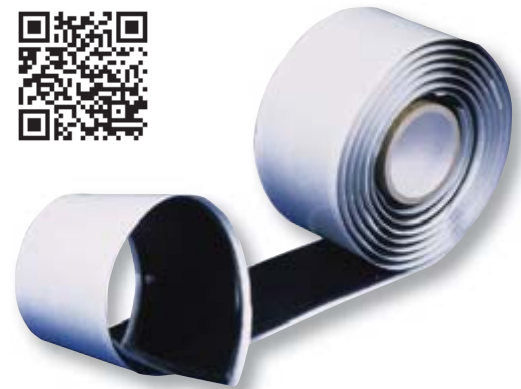
ZSSZOH 1,5 type filling and sealing tape

It is a component of the medium voltage terminal and joint kits. Used for increased moisture protection of the insulations.

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

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



D_{min}: Smallest diameter to restrain safely