TEHNO SISTEM d.o.o.



KATALOG PROIZVODA
PRODUCT CATALOGUE
2019

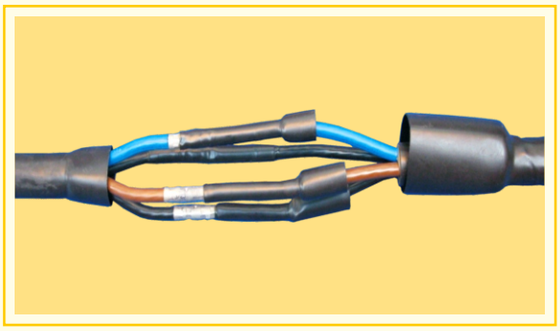
TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR
HEAT-SHRINKABLE CABLE ACCESSORIES

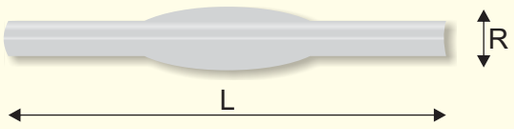
NISKONAPONSKI TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR

TOPLOSKUPLJAJUĆE KABLOVSKE SPOJNICE ZA FLEKSIBILNE KABLOVE 1 kV

LOW VOLTAGE HEAT-SHRINKABLE CABLE ACCESSORIES

HEAT-SHRINKABLE CABLE JOINTS FOR FLEXIBLE RUBBER CABLES 1KV





Namena:

Ove toploskupljajuće spojnice su namenjene za fleksibilne kablove izolovane gumom tipa GN-50, EpN 50, EpN 53,55, EpN 60, EpN 61,62 i kablova slične konstrukcije.

Konstrukcija:

Spajanje provodnika kablova se vrši presovanjem spojnih čaura, preko čaura se postavljaju toploskupljajuće cevčice sa lepkom kako bi izolovali spoj, a vodonepropustljivost i mehanička zaštita se postiže upotrebom toploskupljajućih cevi oslojenih lepkom.

U zavisnosti od konkretnog tipa kabla pored primarne izolacije i obnove plašta kao što je napred opisano u kompletima dolazi i bakarna mrežica i opruge za bezlemno spajanje za nastavak el. zaštite bilo da se nalazi oko faznih žila ili preko cele konstrukcije kabla. U kompletima dolazi i poluprovodna traka za obnovu ekrana faznih provodnika i celog kabla kao i gumena traka za ispunu koja se mota preko celog spoja ispod praštevske cevi i omogućava bolju savitljivost kompletnog spoja.

Kodni broj	Tip proizvoda	Presek provodnika (mm^2)	Dužina spojnice L (mm)	Maksimalni prečnik spojnice R (mm)
13009M	**TSKS - 16**	**6 - 16**	**500**	**40**
13010M	**TSKS - 35**	**10 - 35**	**600**	**45**
13011M	**TSKS - 50**	**16 - 50**	**600**	**55**
13012M	**TSKS - 120**	**50 - 120**	**800**	**70**
13013M	**TSKS - 150**	**70 - 150**	**900**	**90**
13014M	**TSKS - 300**	**150 - 300**	**1200**	**110**
Code No.	Type of product	Conductor cross- section (mm^2)	Length of joint (mm)	Max. Diameter (mm)

* Ukoliko su potrebne spojnice sa nastavnim čaurama u kompletima, potrebno je napomenuti u zahtevu (»tip proizvoda» sa čaurama).
* If connectors with joint kit are required, it is necessary to mention in the request.

Purpose:

These heat-shrinkable joints are applied to flexible rubber cables GN-50, EpN 50, EpN 53,55, EpN 60, EpN 61,62 and cables of similar construction.

Construction:

Wire connection is made by connectors. Tubes with hot melt adhesive that isolate the compound are inserted over connectors. Water resistance is achieved by using tubes with hot melting adhesive.

SREDNJENAPONSKI TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR

TOPLOSKUPLJAJUĆE KABLOVSKE SPOJNICE ZA TROŽILNE NE/EKRANIZOVANE KABLOVE IZOLOVANE PLASTIČNOM MASOM NAPONA 10 I 20 kV

MEDIUM VOLTAGE HEAT-SHRINKABLE CABLE ACCESSORIES

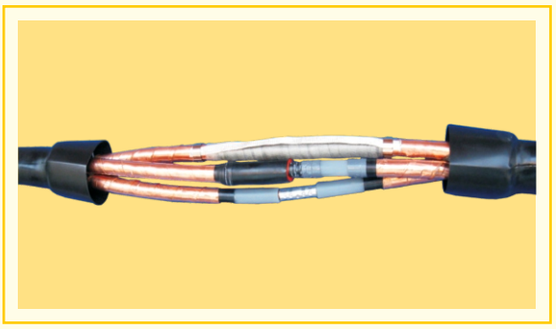
HEAT-SHRINKABLE CABLE JOINTS FOR THREE-CORE SCREENED PLASTIC CABLES 10 AND 20KV

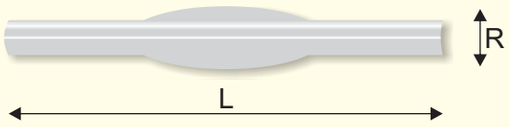
Namena:

Ove toploskupljajuće kablovske spojnice su namenjene za trožilne ekranizovane kablove izolovane plastičnom masom 10 i 20 kV tipa XHP, XHE i kablova slične konstrukcije.

Konstrukcija:

Spajanje provodnika kablova se vrši presovanjem spojnih čaura, regulacija el. polja se vrši pomoću elemenata za regulaciju el. polja, izolovanje spoja i spajanje ekrana se vrši upotrebom dvoslojnih izolacionih t.s. cevi. Spajanje bakarnih traka el. zaštite se vrši upotrebom bakarnih pletenica i mrežica, dok se vodonepropustljivost i mehanička zaštita postiže primenom plaštevskih toplosku-pljajućih cevi oslojenih lepkom.





Purpose:

These heat-shrinkable joints are designed to be applied to three-core screened plastic cables 10 and 20 kV, types XHP, XHE, XLPE and cables of similar construction.

Construction:

Wire connection is made by connectors, electrical field regulation is realized by stress control elements, joint insulation and screen joining are made by using a two-layer insulating tube. Earth Wires joint is made by using connectors and copper wire mesh, while water resistance and mechanical protection are realized by heat shrinkable tubes with hot melting adhesive.

Kodni broj	Tip proizvoda	Naponski nivo (kV)	Presek provodnika (mm^2)	Dužina spojnice L (mm)	Maks. prečnik spojnice R (mm)
14010	**TSKS 10/3-70**	**10**	**25 -70**	**1200**	**90**
14011M	**TSKS 10/3-185**	**10**	**70-185**	**1200**	**110**
14012	**TSKS 10/3-240**	**10**	**95-240**	**1200**	**130**
14013	**TSKS 20/3-70**	**20**	**25 -70**	**1500**	**100**
14014M	**TSKS 20/3-185**	**20**	**70-185**	**1500**	**120**
14015	**TSKS 20/3-240**	**20**	**95-240**	**1500**	**130**
Code No.	Type of product	Voltage level (kV)	Conductor cross- section (mm^2)	Length of joint (mm)	Max. Diameter (mm)

* Ukoliko su potrebne spojnice sa nastavnim čaurama u kompletima, potrebno je napomenuti u zahtevu (»tip proizvoda» sa čaurama).
* If connectors with joint kit are required, it is necessary to mention in the request.

SREDNJENAPONSKI TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR
TOPLOSKUPLJAJUĆE KABLOVSKE SPOJNICE ZA SLABO IZOLOVANE PROVODNIKE (SIP) 10, 20 I 35kV

MEDIUM VOLTAGE HEAT-SHRINKABLE CABLE ACCESSORIES
HEAT-SHRINKABLE CABLE JOINTS FOHR LOW INSULATED CONDUCTOR (LIC) 10, 20 AND 35 kV

Namena:
Ove spojnice su namenjene za spajanje slabo izolovanih provodnika (SIP), čiji su provodnici izrađeni od Al-če užadi za naponski nivo 10, 20 i 35 kV.

Konstrukcija:
U kompletu spojnice dolaze dve kompresione čaure, jedna je čelična za unutrašnji noseći deo užeta a druga je aluminijumska koja se postavlja preko celog užeta.

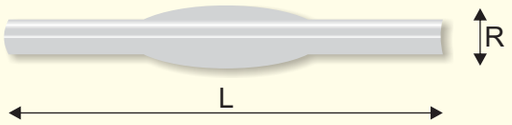
Vodonepropustnost se postiže korišćenjem toploskupljajuće cevi oslojene lepkom.

Purpose:
These heat-shrinkable cable joints are designed for connecting low insulating conductors (LIC), whose conductors are made of Al-st ropes for voltages 10, 20 and 35 kV

Construction:
Set includes two compression connectors, one connector for carrying part of rope is made of steel and the other connector is made of aluminum, which is placed over the rope.

Water resistance is realized by heat-shrinkable tubes with hot melting adhesive.





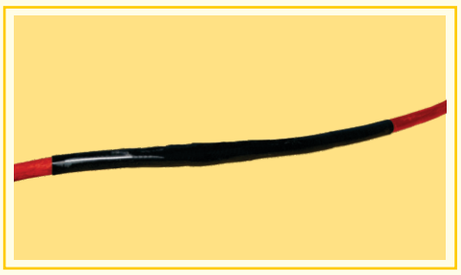
Kodni broj	Tip proizvoda	Naponski nivo (kV)	Presek provodnika (mm^2)	Dužina spojnice L (mm)	Maks. prečnik spojnice R (mm)
4048	**TSKS sip 50/8**	**10/20/35**	**50**	**600**	**21**
4049	**TSKS sip 70/12**	**10/20/35**	**70**	**600**	**25**
4050	**TSKS sip 95/15**	**10/20/35**	**95**	**650**	**28**
Code No.	Type of product	Voltage level (kV)	Conductor cross- section (mm^2)	Length of joint (mm)	Max. Diameter (mm)

TOPLOSKUPLJAJUĆE KABLOVSKE SPOJNICE ZA FLEKSIBILNE GUMENE KABLOVE NAPONA 6kV
HEAT–SHRINKABLE CABLE JOINTS FOR FLEXIBLE RUBBER CABLES 6 KV

Namena:
Ove spojnice su namenjene za spajanje trožilnih fleksibilnih gumenih kablova tipa Epn-78 napona 6 kV i kablova slične konstrukcije.

Konstrukcija:
Spajanje faznih provodnika i uzemljenja se vrši presovanjem spojnih čaura, regulacija el. polja se vrši pomoću elemenata za regulaciju el. polja, izolovanje spojeva se vrši primenom visokonaponskih izolacionih fleksibilnih traka, spajanje ekrana se vrši primenom poluprovodnih traka dok se vodonepropustljivost i mehanička zaštita postiže se primenom plaštevske toploskupljajuće cevi oslojene lepkom.

Purpose:
These heat shrinkable terminations are designed to be applied to three-core flexible rubber cables types Epn 78, 6kV and cables of similar construction.





Kodni broj	Tip proizvoda	Naponski nivo (kV)	Presek provodnika (mm^2)	Dužina spojnice L (mm)	Maks. prečnik spojnice R (mm)
14054	**TSKS flex 6/3-95**	**6**	**25 - 95**	**1000**	**80**
14055	**TSKS flex 6/3-185**	**6**	**95 - 185**	**1200**	**95**
Code No.	Type of product	Voltage level (kV)	Conductor cross- section (mm^2)	Length of joint (mm)	Max. Diameter (mm)

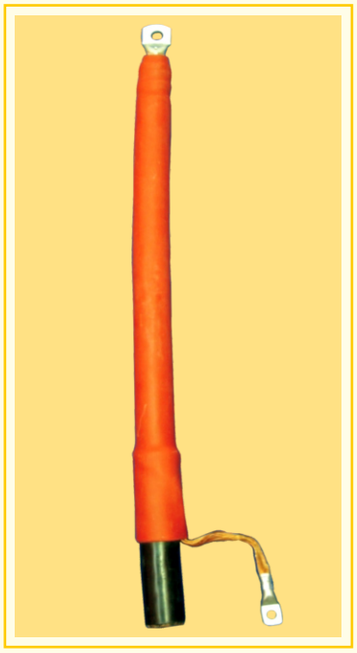
* Ukoliko su potrebne spojnice sa nastavnim čaurama u kompletima, potrebno je napomenuti u zahtevu (»tip proizvoda» sa čaurama).
* If connectors with joint kit are required, it is necessary to mention in the request.

SREDNJENAPONSKI TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR

TOPLOSKUPLJAJUĆE KABLOVSKE ZAVRŠNICE ZA JEDNOŽILNE EKRANIZOVANE KABLOVE IZOLOVANE PLASTIČNOM MASOM NAPONA 10,20 I 35kV - UNUTRAŠNJA MONTAŽA

MEDIUM VOLTAGE HEAT-SHRINKABLE CABLE ACCESSORIES

HEAT-SHRINKABLE CABLE TERMINATIONS FOR SINGLE-CORE SCREENED PLASTIC CABLES 10, 20 END 35 KV, FOR INDOOR APPLICATION





Namena:

Ove toploskupljajuće kablovske završnice su namenjene za završavanje jednožilnih ekranizovanih kablova izolovanih plastičnom masom tipa XHP, XHE i kablova slične konstrukcije, napona 10, 20 i 35kV za unutrašnju montažu.

Konstrukcija:

Završnice se izoluju toploskupljajućim cevima koje su otporne na puzne struje i teške uslove eksploatacije. Regulacija el. polja na prelazu poluprovodni sloj-izolacija se vrši upotrebom rezistivnih elemenata za regulaciju el. polja. Žice el. zaštite kabla se vraćaju unazad i oblikuju se u pletenicu na čijem se kraju ispresuje papučica za uzemljenje koja dolazi u kompletu završnice.

Kodni broj	Tip proizvoda	Naponski nivo (kV)	Presek provodnika (mm^2)	Dužina završnice L (mm)
15001	TSKZ/U 10/1-70	10	25-70	330
15002	TSKZ/U 10/1-185	10	70-185	330
15003	TSKZ/U 10/1-300	10	120-300	330
15004	TSKZ/U 20/1-70	20	25-70	400
15005	TSKZ/U 20/1-185	20	70-185	400
15006	TSKZ/U 20/1-300	20	120-300	400
15007	TSKZ/U 35/1-70	35	25-70	500
15008M	TSKZ/U 35/1-120	35	50-120	500
15009M	TSKZ/U 35/1-240	35	120-240	500
Code No.	Type of product	Voltage level (kV)	Conductor cross- section (mm^2)	Length of joint (mm)

* Komplet završnica sadrži set za tri kabla
* Ukoliko su potrebne završnice sa papučicama u kompletima, potrebno je napomenuti u zahtevu («tip proizvoda» sa papučicama).
* The terminations kit contains materials for three cables.
* If terminations with cable lugs are required, it is necessary to mention in the request

Purpose:

These heat-shrinkable terminations are designed to be applied to single-core screened plastic cables 10, 20 and 35 kV, types XHP, XHE, XLPE and cables of similar construction for indoor application.

Construction:

Terminations are insulated with heat-shrinkable anti-tracking tubes that are track resistant and resistant to difficult exploitation conditions. Electrical field regulation is realized by stress control elements at the Insulation-semiconducting layer crossing.

Earth wires are bent back and formed into a rope. At the end of the rope a copper lug for grounding that comes with the kit is placed.

SREDNJENAPONSKI TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR

TOPLOSKUPLJAJUĆE KABLOVSKE ZAVRŠNICE ZA FLEKSIBILNE GUMENE KABLOVE NAPONA 6kV

MEDIUM VOLTAGE HEAT–SHRINKABLE CABLE ACCESSORIES

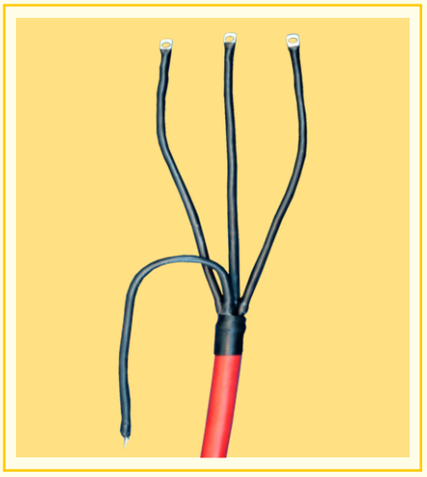
HEAT–SHRINKABLE CABLE TERMINATIONS FOR FLEXIBLE RUBBER CABLES 6 KV

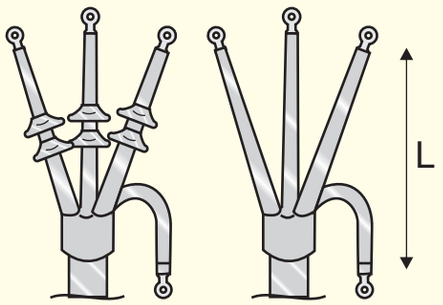
Namena:

Ove toploskupljajuće kablovske završnice su namenjene za završavanje trožilnih fleksibilnih kablova tipa Epn 78 i kablova slične konstrukcije napona 6 kV za spoljnu i unutrašnju montažu.

Konstrukcija:

Završetak fleksibilnih kablova se ostvaruje upotrebom četvoropolne t.s. račve i toploskupljajućih fleksibilnih cevi. Regulacija el. polja se vrši pomoću rezistivnih elemenata za regulaciju el. polja. Tri žile el. zaštite koje se nalaze unutar kabla se spajaju u jednu žilu koja se provlači kroz četvrti krak račve i na kraju se ispresuje papučica za uzemljenje. Zaštita od atmosferskih padavina se postiže upotrebom t.s. izolacionih šeširića.





Purpose:

These heat shrinkable terminations are designed to be applied to three-core flexible rubber cables types Epn 78 and cables of similar construction for indoor and outdoor application.

Construction:

Cable termination is realized by a 4-way breakout and heat-shrinkable flexible tubes. Electrical field regulation is realized by stress control elements. Three cores of electric cable protection are joined into one single core, which runs through the fourth branch of the breakout. At the end of the single-core a copper lug for grounding is placed. Protection from weather conditions is achieved by using heat-shrinkable sheds.

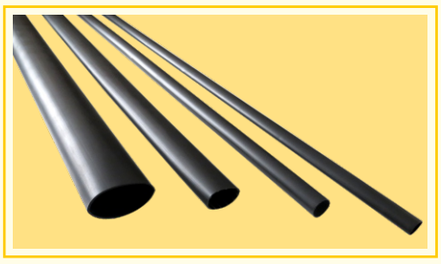
Kodni broj	Tip proizvoda	Naponski nivo (kV)	Presek provodnika (mm^2)	Dužina završnice L (mm)	Broj šeširića po žili
15049	**TSKZ/U flex 6/3-95**	**6**	**16-95**	**600**	**-**
15050	**TSKZ/U flex 6/3-185**	**6**	**95-185**	**600**	**-**
15051	**TSKZ/S flex 6/3-95**	**6**	**16-95**	**600**	**2**
15052	**TSKZ/S flex 6/3-185**	**6**	**95-185**	**600**	**2**
Code No.	Type of product	Voltage level (kV)	Conductor cross- section (mm^2)	Length of joint (mm)	Number of sheds on core

* Ukoliko su potrebne završnice sa papučicama u kompletima, potrebno je napomenuti u zahtevu («tip proizvoda» sa papučicama).

* If terminations with cable lugs are required, it is necessary to mention in the request

TOPLOSKUPLJAJUĆI KABLOVSKI PRIBOR
HEAT-SHRINKABLE CABLE ACCESSORIES

TOPLOSKUPLJAJUĆE CEVI SREDNJE DEBLJINE ZIDA SA TOPLJIVIM LEPKOM
MEDIUM WALL TUBING WITH HOT MELTING ADHESIVE



Kodni broj	Dimenzije	Isporučena (mm)	Nakon skupljanja d* (max)	Nakon skupljanja w* (min)	Standardna dužina (mm)
16001	**8/2**	**8**	**2**	**1.6**	**1000**
16002	**12/3**	**12**	**3**	**2.0**	**1000**
16003	**16/5**	**16**	**5**	**2.2**	**1000**
16004	**22/6**	**22**	**6**	**2.4**	**1000**
16005	**28/6**	**28**	**6**	**2.5**	**1000**
16006	**33/8**	**33**	**8**	**2.5**	**1000**
16007	**40/12**	**40**	**12**	**2.5**	**1000**
16008	**55/16**	**55**	**16**	**3.3**	**1000**
16009	**65/19**	**65**	**19**	**3.3**	**1000**
16010	**75/22**	**75**	**22**	**3.5**	**1000**
16011	**85/25**	**85**	**25**	**3.5**	**1000**
16012	**95/25**	**95**	**25**	**3.5**	**1000**
16013	**115/34**	**115**	**34**	**3.5**	**1000**
16014	**140/42**	**140**	**42**	**3.5**	**1000**
Code No.	Size	As Supplied (mm)	d* (max) After Recovery	w* (min) After Recovery	Standard length (mm)

Namena:

T.s cevi su nemenjene za zaptivanje i zaštitu el. spojeva, kablovskih završnica i spojnica gde je potrebna električna izolacija, UV zaštita i vodonepropustljivost. Odnos skupljanja od 3:1 omogućava lako uklapanje u nepravilne oblike i velike konektore.

Applications:

It is designed for applications to seal and protect electrical splices, cable terminatoins and joints where electrical insulation, UV and water proof. are required 3:1 shrink ratio allows it easily fit over irregular shape and large connectors.



TOPLOSKUPLJAJUĆE REPARATURNE MANŽETNE
HEAT–SHRINKABLE REPAIR SLEEVE

Kodni broj	Dimenzije	Isporučena (mm)	Nakon skupljanja d* (max)	Nakon skupljanja w* (min)	Standardna dužina (mm)
16015M	**36/10**	**36**	**10**	**2.4**	**250-1500**
16016M	**55/13**	**55**	**13**	**2,5**	**250-1500**
16017M	**85/20**	**85**	**20**	**3.0**	**250-1500**
16018M	**108/27**	**108**	**27**	**3.0**	**250-1500**
Code No.	Size	As Supplied (mm)	d* (max) After Recovery	w* (min) After Recovery	Standard length (mm)

Namena:

T.S. reperaturne manžetne su namenjene za popravku oštećenih kablova preko omotača i primenjuju se za različite vrste kablova 1-35 kV.

Applications:

It is designed for repairing damaged cable over sheaths on various types of cables