



March 2023

Product Change Notification STL Replacement – Molded Products with STL 355 by STL 242

Dear Valued Customer,

In order to meet the latest market and technology trends, Belden is constantly developing innovative and high-quality products and variants that complement and optimize our existing portfolio. Every product has a defined life cycle, and our products are typically characterized by a very long availability on the market. However, product changes become inevitable over a period of time. For example, components in these products may be difficult to obtain, may no longer be available on the market, or need to adopt to new market requirements.

This letter is to inform you that Belden is replacing products with the Cable No. STL 355 by STL 242, please see the cross reference of the products attached.

Except for the color of cable jacket (Grey similar to RAL 7040 to Black similar to RAL 9005), the cables have no specification differences. We are pleased to be able to offer you this alternative and are happy to answer any questions you may have.

This required change does not affect the previous use of the products but refers to ensuring future availability of raw material within the 19-pole product family.

Please read the detailed explanation of the changes below.

PCN No: PCN-2023-03-24-335-242

Change Title: STL Replacement STL 355 by STL 242

Change Classification: ☒ Minor ☐ Major

Change Item: ☐ Design ☒ Raw Material (Sealing) ☐ Packaging ☐ Firmware ☐ Others ☐

Difference Description	
Old Cable Jacket	NEW Cable Jacket
Outer jacket: Jacket material: PUR Jacket-diameter: Ø 11,60 -0,30 mm Jacket color: grey matt similarly RAL 7040	Outer jacket: Jacket material: PUR Jacket-diameter: Ø 11,60 ±0,30 mm Jacket color: black matt similarly RAL 9005

Impact of Change(s):

Form: affected – Cable Jacket Color (no technical impact)
Fit: no affect
Function: no affect
Reliability: no affect
Others: no affect



Cross Reference for Replacement:

Old STL 355 Products		NEW Replacement with STL 242	
94807	RSUF 19-RKWU 19-355/5 M	9446	RSUF 19-RKWU 19-242/5 M
6003	RSUF 19-RKU 19-355/5 M	16347	RSUF 19-RKU 19-242/5 M
81112	RKU 19-355/10 M	60684	RKU 19-242/10 M
93118	RKU 19-355/15 M	60685	RKU 19-242/15 M
16288	RKU 19-355/20 M	60686	RKU 19-242/20 M
74622	RKWU 19-355/10 M	60693	RKWU 19-242/10 M
104773	LÖ RKWU 19-355/15 M	60694	RKWU 19-242/15 M
89215	RKWU 19-355/5 M	60706	RKWU 19-242/5 M
23822	RKWU 19-355/2 M	61260	RKWU 19-242/2 M
5946	RSUF 19-RKU 19-355/3 M	934637315	RSUF 19-RKU 19-242/3 M
98012	LÖ RKU 19-355/4 M	935051001	RKU 19-242/4 M
89236	RKU 19-355/5 M	935051002	RKU 19-242/5 M
94603	LÖ RKU 19-355/6 M	935051003	RKU 19-242/6 M
94604	RKU 19-355/8 M	935051004	RKU 19-242/8 M
101316	LÖ RKU 19-355/12 M	935051005	RKU 19-242/12 M
6759	RSUF 19-RKU 19-242/10 M	935052001	RSUF 19-RKU 19-242/10 M
25786	RSUF 19-RKU 19-355/25 M	935052002	RSUF 19-RKU 19-242/25 M
25787	RSUF 19-RKU 19-355/35 M	935052003	RSUF 19-RKU 19-242/35 M
94806	RSUF 19-RKWU 19-355/2 M	935053001	RSUF 19-RKWU 19-242/2 M
5627	RSUF 19-RKWU 19-355/3 M	935053002	RSUF 19-RKWU 19-242/3 M
94808	RSUF 19-RKWU 19-355/10 M	935053003	RSUF 19-RKWU 19-242/10 M
104038	RSUF 19-RKWU 19-355/15 M	935053004	RSUF 19-RKWU 19-242/15 M
107550	LÖ RSUF 19-RKWU 19-355/18 M	935053005	RSUF 19-RKWU 19-242/18 M
110002	RSUF 19-RKWU 19-355/20 M	935053006	RSUF 19-RKWU 19-242/20 M
25785	RSUF 19-RKWU 19-355/25 M	935053007	RSUF 19-RKWU 19-242/25 M

Implementation Plan:

	Date
Date of Communication	March, 2023
Start of Implementation Phase	April, 2023

Comments:

The original specification is not affected (excl. Cable Jacket Color) by the forthcoming changes. There is no change in the conventionally intended usability.

**Recommended Actions:**

Please forward this important information to your customers. Also, please inform your purchasing, development, product departments, and other responsible persons effected by this change.

Distributors are advised to forward this information to their customers who are buying the listed products.

Distribution List:

Sales/Marketing: Yes
Product Management: Yes
R&D: Yes
Operations: Yes
Specific Customer(s): Yes
Others: Yes

Originator:

Job Title/Function
Product Manager

Name
Artjom Bil

Contact for Questions & Concerns:

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Thank you very much for your trust in our company and if you have any questions or remarks, please contact your local Belden sales representative.

Sincerely,

Belden Deutschland GmbH

i.V. Juergen Schmid
Product Cluster Director

i.A. Artjom Bil
Product Manager

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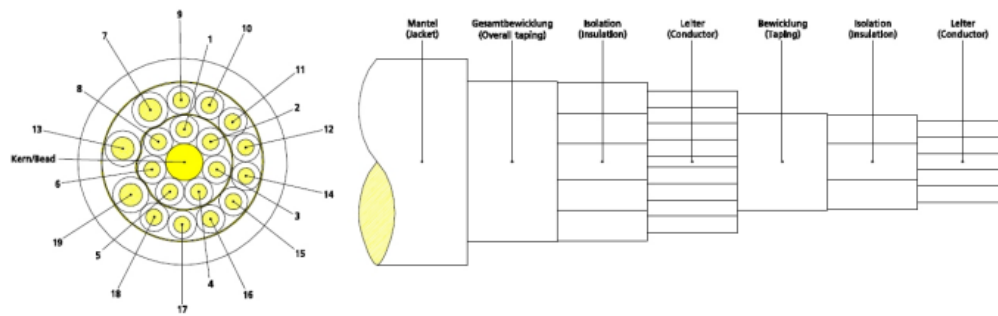
Datasheet: STL 355 EN

Datasheet



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01. Drawing



The information/details in this datasheet merely contain general descriptions or performance factors which, when applied in an actual situation, do not always correspond with the described form, and may be amended by way of the further development of products. The desired performance factors shall only be binding if these are expressly agreed on conclusion of the contract.



Datasheet-No.: 000-909-355	Type: STL 355, 16x0,5mm ² + 3x1mm ²	Page:
EN Revision: 09 Created: 2021-11-03 jderbog	LI32YH-11YH, AWM Style 20549, TPE/PUR, 300V/80°C	1 of 6

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Datasheet



02. Application:

Description:

as a flexible, flame-retardant and halogen-free control line in the industrial mechanical- and plant engineering, for high requirements, particularly for the employment in cable carriers (Drag chains) and moved machine parts

03. Line construction:

03.01 Litz construction:

Wire material:

Wire size:

Litz construction:

in acc. with VDE 0295, EN 60228, IEC 60228, HD 383

Cu-ETP1 bare in acc. with DIN EN 13602

16 x 0,50 mm² / 3 x 1,0 mm²

approx. 64 x Ø 0,10 mm (1-6, 8-12, 14-18)

ca. 128 x Ø 0,10 mm (7, 13, 19)

03.02. Core insulation:

no adherence between insulated wires and between these wires and the sheath

Wire isolation:

TPE

Core-diameter:

approx. Ø 1,6 ± 0,05 mm (1-6, 8-12, 14-18)

Ø 2,0 ± 0,05 mm (7, 13, 19)

Number of wires:

19 (16+3)

Correlation Core number-Core color:

1 yellow-brown/YE-BN; 2 brown-green/BN-GN; 3 white/WH;
4 yellow/YE; 5 pink/PK; 6 grey-brown/GY-BN; 7 brown/BN;
8 violet/VT; 9 red/RD; 10 grey/GY; 11 red-blue/RD-BL;
12 green/GN; 13 blue/BU; 14 grey-pink/GY-PK;
15 white-green/WH-GN; 16 white-yellow/WH-YE;
17 white-grey/WH-GY; 18 black/BK; 19 green-yellow/GN-YE

03.09. shielding:

no

Diameter:

(ca. Ø - mm)

03.10. Overall shield:

Diameter:

(ca. Ø - mm)

03.13. Outer jacket:

Jacket material:

PUR

Jacket-diameter:

Ø 11,60 -0,30 mm

Jacket color:

grey matt similarly RAL 7040

Surface free from lubricant and grease.

Color:

yellow

Printing:

* 355 / ** PUR E*** cURus AWM STYLE **** AWM
I/II A/B 80°C 300V FT2 SUITABLE FOR USE WITHIN
EQUIPMENT ONLY

* = Producer identification

** = WWYY Production-year and -week

*** = UL-Producer number

**** = Style-Number

Datasheet-No.: 000-909-355

Type: STL 355, 16x0,5mm² + 3x1mm²

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Li32YH-11YH, AWM Style 20549, TPE/PUR, 300V/80°C

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04. Characteristics:

04.01 Temperature range: (Lifetime > 20.000 h)
 in stationary position: - 50 °C - +90 °C (UL: + 80 °C)
 flexible: - 25 °C - +90 °C (UL: + 80 °C)
 Ambient temperature in the drag chain movement: - 25 °C - +60 °C

04.02 Electrical characteristics: at 20 °C
 nominal voltage: ≤ 300 V
 test voltage core/core, (50 Hz, 1 min.): ≥ 2000 V eff.
 conductor resistance: max. 39,0 Ω/km @ 0,5mm²
 max. 19,5 Ω/km @ 1,0 mm²
 Insulation resistance: > 8 MΩxkm
 Inductance per length unit : mH/km

Bending radius in stationary position: > 5 x D
 Bending radius in flexible stress: > 10 x D
 Bending radius drag chain: > 10 x D
 Angle of torsion max.: ± 360°
 Length of torsion: 1 m
 Bending cycles at torsion: > 5 Mio.

04.04 Drag chain characteristics: yes
 Bending cycles *: > 5 Mio.
 permissible acceleration: max. 5 m/s²
 permissible horizontal traverse path: at 5 m/s² ► 5 m
 permissible vertical traverse path: at 5 m/s² ► 2 m
 permissible traverse speed at 5 m hor. trav. path: max. 200 m/min

* depending on horizontal travel length and acceleration.

05. Burning behavior:

flame retardant acc. to: IEC 60332-2, VDE 0482-265-2-2, EN 50265-2-2, CSA-FT2

06. Halogen-free:

Tests acc. to: DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1

07. Resistances:

Oil rest. tests acc. with: good
 others: Good microbes and hydrolysis resistance
 Good chemical resistance

08. Other characteristics:

Exclusion of dangerous materials acc.: EU-Directives:
 1907/2006/EG, Reach
 2011/65/EU, RoHS2
 2015/863/EU, RoHS3

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Type: STL 355, 16x0,5mm² + 3x1mm²

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Datasheet



further legal requirements:

EU-Directive:

2014/35/EU, LVD

others:

Mainly plasticizer diffusion free

Exclusion of PVC and Silicone

Free of lacquer wetting disturbing substances

Coldness flexibility

09. Approvals:

UL/CSA

Jacket:

cURus in acc. with AWM Style 20549 or 21198 (80°C / 300V)

Core:

cURus in acc. with AWM Style 10493 (80°C / 300V)

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Datasheet



product overview

Article-No.	Type
000-072-863	STL 355, 16x0,50mm ² +3x1,0mm ² , PUR, grau

Version: 9

Description of changes:

Add: with protective earth green/yellow GNYE Yes

Changed: Printing: * 355 / ** PUR E*** cURus AWM STYLE **** AWM

I/II A/B 80°C 300V FT2 in * 355 / ** PUR E*** cURus AWM STYLE **** AWM

I/II A/B 80°C 300V FT2 SUITABLE FOR USE WITHIN

EQUIPMENT ONLY

Add: Oil rest. tests acc. with: good

Add: others: Good microbes and hydrolysis resistance

Good chemical resistance

Changed: Exclusion of dangerous materials acc.: 2000/53/EG, 2011/65/EU, 2003/11/EG, 1907/2006/EG

good microbes and hydrolysis resistance

mainly plasticizer diffusion free

good chemical and oil resistance

Exclusion of PVC and Silicone

free of lacquer wetting disturbing substances

Cold in EU-Directives:

1907/2006/EG, Reach

2011/65/EU, RoHS2

2015/863/EU, RoHS3

Add: further legal requirements: EU-Directive:

2014/35/EU, LVD

Add: others: Mainly plasticizer diffusion free

Exclusion of PVC and Silicone

Free of lacquer wetting disturbing substances

Coldness flexibility

Datasheet-No.: 000-909-355

Type: STL 355, 16x0,5mm² + 3x1mm²

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**Datasheet****Datasheet-No.:** 000-909-355**Type:** STL 355, 16x0,5mm² + 3x1mm²**Page:**

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Li32YH-11YH, AWM Style 20549, TPE/PUR, 300V/80°C

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STL 242 EN:**EMEA**

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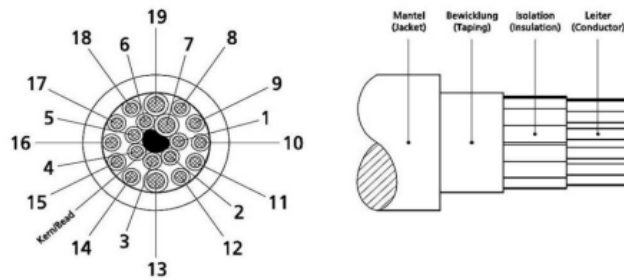
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Datasheet

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01. Drawing



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Datasheet-No.: 193-242-001 **Type:** STL 242, 16x0,5mm² + 3x1,0mm²
EN Revision: 17 Created:2022-02-16 jderbog **LI9YH-11YH, AWM Style 20549, PUR, 300 V/80 °C**

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Datasheet



02. Application:

Description: as a flexible, flame-retardant and halogen-free control line in the industrial mechanical- and plant engineering, for high requirements, particularly for the employment in cable carriers (Drag chains) and moved machine parts

03. Line construction:

03.01 Litz construction: in acc. with VDE 0295, EN 60228, IEC 60228 (class 6), AWG
Wire material: Cu-ETP1 bare in acc. with DIN EN 13602
Wire size: 0,50 mm², AWG20 / 1,0 mm², AWG18
Litz construction: ca. 64 x Ø 0,10 mm = 0,50 mm² (AWG 64/38) (1-6, 8-12, 14-18)
ca. 128 x Ø 0,10 mm = 1,0 mm² (AWG 128/38) (7, 13, 19)

03.02. Core insulation: no adherence between insulated wires and between these wires and the sheath

Wire isolation: PP
Core-diameter: Ø 1,45 ± 0,05 mm (1-6, 8-12, 14-18)
Ø 1,95 ± 0,05 mm (7, 13, 19)
Number of wires: 19 (16+3)
Correlation Core number-Core color: 1 yellow-brown/YE-BN; 2 brown-green/BN-GN; 3 white/WH;
4 yellow/YE; 5 pink/PK; 6 grey-brown/GY-BN; 7 brown/BN;
8 violet/VT; 9 red/RD; 10 grey/GY; 11 red-blue/RD-BL;
12 green/GN; 13 blue/BU; 14 grey-pink/GY-PK;
15 white-green/WH-GN; 16 white-yellow/WH-YE;
17 white-grey/WH-GY; 18 black/BK; 19 green-yellow/GN-YE

03.09. shielding: no
Diameter: (ca. Ø - mm)

03.10. Overall shield: (ca. Ø - mm)
Diameter:

03.13. Outer jacket:
Jacket material: PUR
Jacket-diameter: Ø 11,60 ± 0,30 mm
Jacket color: black matt similarly RAL 9005

Surface free from lubricant and grease.

Color: yellow
Printing: * 242 / ** PUR E*** cURus AWM STYLE **** AWM
I/II A/B 80°C 300V FT2 +SUITABLE FOR USE WITHIN
EQUIPMENT ONLY

* = Producer identification

** = WWYY Production-year and -week

*** = UL-Producer number

**** = Style-Number

Datasheet-No.: 193-242-001

Type: STL 242, 16x0,5mm² + 3x1,0mm²

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Li9YH-11YH, AWM Style 20549, PUR, 300 V/80 °C

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04. Characteristics:

04.01 Temperature range:	(Lifetime > 20.000 h)
in stationary position:	- 50 °C to + 80 °C
flexible:	- 25 °C to + 80 °C
Ambient temperature in the drag chain movement:	max. + 60 °C
04.02 Electrical characteristics:	at 20 °C
nominal voltage:	≤ 300 V
test voltage core/core, (50 Hz, 1 min.):	≥ 2000 V eff.
conductor resistance:	max. 39,0 Ω/km @ 0,34mm ²
Insulation resistance:	> 1000 MΩxkm
Inductance per length unit :	0,5 mm ² : nom. 0,5 mH/km 1,0 mm ² : nom. 0,4 mH/km
Operating capacity per length unit :	0,5 mm ² : nom. 94 pF/m 1,0 mm ² : nom. 121 pF/m
Bending radius in stationary position:	> 5 x D
Bending radius in flexible stress:	> 10 x D
Angle of torsion max.:	± - °/m
Bending cycles at torsion:	> - Mio.
04.04 Drag chain characteristics:	yes
Bending cycles *:	> 2 Mio.
permissible acceleration:	max. 5 m/s ²
permissible horizontal traverse path:	at 5 m/s ² ► 5 m
permissible vertical traverse path:	at 5 m/s ² ► 2 m
permissible traverse speed at 5 m hor. trav. path:	max. 200 m/min

* depending on horizontal travel length and acceleration.

05. Burning behavior:

flame retardant acc. to:	IEC 60332-2, VDE 0482-265-2-2, EN 50265-2-2, CSA-FT2
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06. Halogen-free:

Tests acc. to:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
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07. Resistances:

Oil rest. tests acc. with:	good
others:	Good microbes and hydrolysis resistance Good chemical resistance

08. Other characteristics:

Exclusion of dangerous materials acc.:	EU-Directives: 1907/2006/EG, Reach 2011/65/EU, RoHS2 2015/863/EU, RoHS3
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Type: STL 242, 16x0,5mm² + 3x1,0mm²

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further legal requirements:

EU-Directive:

2014/35/EU, LVD

others:

Mainly plasticizer diffusion free

Exclusion of PVC and Silicone

Free of lacquer wetting disturbing substances

Coldness flexibility

09. Approvals:

UL/CSA

Jacket:

UL + cUL in acc. with AWM Style 21198 (80 °C / 300 V)

or AWM Style 20549 (80 °C, 300 V)

Core:

UL + cUL in acc. with AWM Style 10493 (80 °C / 300 V)

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product overview

Article-No.	Type
000-109-576	STL 242/100 M PUR
193-242-001	STL 242
934-637-040	STL 242/400 M PUR

Version: 17

Description of changes:

Changed: Inductance per length unit : mH/km in 0,5 mm²: nom. 0,5 mH/km

1,0 mm²: nom. 0,4 mH/km

Add: Operating capacity per length unit : 0,5 mm²: nom. 94 pF/m

1,0 mm²: nom. 121 pF/m

Datasheet-No.: 193-242-001

Type: STL 242, 16x0,5mm² + 3x1,0mm²

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