Belden



Product: 1095A

Inst, 12 Tri #18 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry 75C Wet

Request Sample

Product Description

UL Instrumentation, 12 Triad 18AWG (7x26) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...),low voltage digital control (24v, …),RTD, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, actuators, positioners

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Triad(s)	12	18 AWG	7x26	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.088 in (2.2 mm)	ICEA Chart E1

Inner Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter	Ripcord
Polyester Tape	PVC - Polyvinyl Chloride	0.084 in (2.1 mm)	0.962 in	Yes

Overall Cable Diameter (Nominal):	0.962 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
6.7 Ohm/1000ft	7.11 Ohm/1000ft (23.3 Ohm/km)	37 pF/ft (120 pF/m)	43 pF/ft (140 pF/m)	30 pF/ft (98 pF/m)	6 Amps per Conductor at 30ºC

Nom Outer Shield DCR:	4.8 Ohm/1000ft (16 Ohm/km)

Voltage

UL Voltage Rating
600 V (TC-ER), 150 V (NPLF)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 75°C Wet	-20°C To +90°C Dry, +75°C Wet

Bend Radius

Stationary Min.	Installation Min.
3.848 in (97.74 mm)	4.81 in

Max. Pull Tension:	997 lbs (452 kg)
Bulk Cable Weight:	503 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL1685 UL Loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760
CEC / C(UL) Compliance:	.
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Triad groups are numbered for ease of identification. Alternate color coding available upon request.

History

Update and Revision:	Revision Number: 0.429 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1095A 0102500	Black	Reel	2,500 ft	612825106401	C Z
1095A 0105000	Black	Reel	5,000 ft	612825106418	C Z

Footnote:	C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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