2. Instrumentation Cable

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EFFECTIVE 1998-09-30

2. Instrumentation Cable

PRODUCT	INSULATION	JACKET	PAGE
FREP-XL Shielded Pairs/Shielded Triads 600V, UL Type TC	EPR	XL – CPE	2.01-2.04
FREP-II Shielded Pairs/Shielded Triads 300V, UL Type PLTC/ITC 600V, UL Type TC	EPR	LSZH	2.05-2.08
FREP Shielded Pairs/Shielded Triads 300V, UL Type PLTC/ITC	EPR	CPE	2.09-2.11
FREP Shielded Pairs/Shielded Triads 600V, UL Type TC	EPR	CPE	2.12-2.14
CHIC Shielded Pairs/Shielded Triads 300V, UL Type PLTC/ITC	XLPO	HYP	2.15-2.17
CHTC Shielded Pairs/Shielded Triads 600V, UL Type TC	XLPO	HYP	2.18-2.19
CVTC Shielded Pairs/Shielded Triads 300V, UL Type PLTC/ITC 600V, UL Type TC	XLPE	PVC	2.20-2.23
VNTC Shielded Pairs/Shielded Triads 600V, UL Type TC	PVC/Nylon	PVC	2.24-2.25
PVIC Shielded Pairs/Shielded Triads 300V, UL Type PLTC/ITC	PVC	PVC	2.26-2.28
PZIC Shielded Pairs 300V, UL Type PLTC/ITC	PVC/PVC	CPE	2.29-2.30
Arctic-Flex™ Shielded Pairs/Shielded Triads 600V, UL Type TC/ICEA S-73-532	EPR	Arctic-PVC	2.31-2.32

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EFFECTIVE 1998-09-30

FREP XL INSTRUMENTATION CABLE

BICCCables

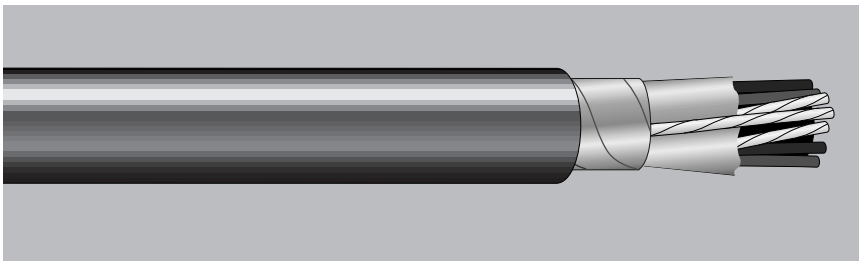
SPECIFICATION #FREP XL-I-0001

INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE PLTC/ITC UL TYPE TC

300V/600V EPR/XL-CPE



Description

Conductors:
Tinned, annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant ethylene propylene rubber (EPR) Type II

Conductor Components:
Insulated single conductors are twisted into pairs, triads or multiple conductor components.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant, heavy duty cross-linked chlorinated polyethylene (XL-CPE)

Options:
- Bare copper conductors
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Ratings:
- UL.....90°C Dry; 75°C Wet
- ICEA.....90°C Dry or Wet

FREP XL Instrumentation Cable Listings:
- UL Type PLTC/ITC – 300 Volts
- UL Type TC – 600 Volts in conductor sizes #18 AWG – #12 AWG
- ICEA S-66-516 – 600 volts

Flame-Retardant EPR Insulation, UL Class XL and Type II in Accordance with ICEA S-68-516, (NEMA WC-8) Provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics (insulated conductors pass low temperature cold bend test at –50°C; completed cable passes at –35°C)

Flame-Retardant Heavy Duty Thermoset Jacket Provides:
- Resistance to "cold flow"
- Abrasion and chemical resistance
- Sunlight and weathering resistance
- High flexibility
- High tear resistance
- Enhanced flame resistance

FREP XL Instrumentation Cables:
- Are OSHA acceptable
- Meet the following Flame Tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)
  - UL 1277 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including minimal smoke and halogen emission when burned and flame retardance.

May Be Installed:
- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)
- In enclosed areas where personnel and/or sensitive electronic equipment would be exposed to toxic emissions in the event of a fire

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EFFECTIVE 1999-01-31

SPECIFICATION #FREP XL-I-0001

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC, 300V FREP XL

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP XL-S300TC-20-1PS	20 AWG 7/.0121	1	0.012	0.035	0.210	24
FREP XL-S300TC-20-1TS	**20 AWG 7/.0121**	**1TRI**	**0.012**	**0.035**	**0.220**	**36**
FREP XL-S300TC-20-2PS	20 AWG 7/.0121	2	0.012	0.040	0.312	43
FREP XL-S300TC-20-4PS	20 AWG 7/.0121	4	0.012	0.040	0.361	66
FREP XL-S300TC-20-6PS	20 AWG 7/.0121	6	0.012	0.050	0.437	99
FREP XL-S300TC-20-8PS	20 AWG 7/.0121	8	0.012	0.050	0.476	122
FREP XL-S300TC-20-12PS	20 AWG 7/.0121	12	0.012	0.050	0.552	168
FREP XL-S300TC-20-16PS	20 AWG 7/.0121	16	0.012	0.060	0.636	224
FREP XL-S300TC-20-20PS	20 AWG 7/.0121	20	0.012	0.060	0.662	265
FREP XL-S300TC-20-24PS	20 AWG 7/.0121	24	0.012	0.060	0.745	313
FREP XL-S300TC-20-36PS	20 AWG 7/.0121	36	0.012	0.060	0.841	439
FREP XL-S300TC-20-50PS	20 AWG 7/.0121	50	0.012	0.070	0.993	613
FREP XL-S300TC-18-1PS	18 AWG 7/.0152	1	0.015	0.035	0.238	31
FREP XL-S300TC-18-1TS	**18 AWG 7/.0152**	**1TRI**	**0.015**	**0.035**	**0.251**	**50**
FREP XL-S300TC-18-2PS	18 AWG 7/.0152	2	0.015	0.040	0.361	58
FREP XL-S300TC-18-4PS	18 AWG 7/.0152	4	0.015	0.050	0.445	102
FREP XL-S300TC-18-6PS	18 AWG 7/.0152	6	0.015	0.050	0.507	138
FREP XL-S300TC-18-8PS	18 AWG 7/.0152	8	0.015	0.050	0.554	172
FREP XL-S300TC-18-12PS	18 AWG 7/.0152	12	0.015	0.060	0.668	253
FREP XL-S300TC-18-16PS	18 AWG 7/.0152	16	0.015	0.060	0.745	321
FREP XL-S300TC-18-20PS	18 AWG 7/.0152	20	0.015	0.060	0.777	384
FREP XL-S300TC-18-24PS	18 AWG 7/.0152	24	0.015	0.060	0.878	455
FREP XL-S300TC-18-36PS	18 AWG 7/.0152	36	0.015	0.070	1.015	664
FREP XL-S300TC-18-50PS	18 AWG 7/.0152	50	0.015	0.070	1.163	890
FREP XL-S300TC-16-1PS	16 AWG 7/.0192	1	0.015	0.035	0.262	40
FREP XL-S300TC-16-1TS	**16 AWG 7/.0192**	**1TRI**	**0.015**	**0.040**	**0.287**	**70**
FREP XL-S300TC-16-2PS	16 AWG 7/.0192	2	0.015	0.050	0.427	85
FREP XL-S300TC-16-4PS	16 AWG 7/.0192	4	0.015	0.050	0.495	136
FREP XL-S300TC-16-6PS	16 AWG 7/.0192	6	0.015	0.050	0.567	187
FREP XL-S300TC-16-8PS	16 AWG 7/.0192	8	0.015	0.060	0.641	248
FREP XL-S300TC-16-12PS	16 AWG 7/.0192	12	0.015	0.060	0.749	349
FREP XL-S300TC-16-16PS	16 AWG 7/.0192	16	0.015	0.060	0.839	448
FREP XL-S300TC-16-20PS	16 AWG 7/.0192	20	0.015	0.060	0.875	540
FREP XL-S300TC-16-24PS	16 AWG 7/.0192	24	0.015	0.070	1.012	660
FREP XL-S300TC-16-36PS	16 AWG 7/.0192	36	0.015	0.070	1.147	942
FREP XL-S300TC-16-50PS	16 AWG 7/.0192	50	0.015	0.080	1.338	1296

Print: BICC CABLES XX/PR/TRI XXAWG SHIELDED (UL) TYPE PLTC 300V 105C SUN RES

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BICC Cables

SPECIFICATION #FREP XL-I-0001

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE PLTC/ITC, 300V FREP XL

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP XL-S300TC-20-2SPS	20 AWG 7/.0121	2	0.012	0.040	0.325	47
FREP XL-S300TC-20-4SPS	20 AWG 7/.0121	4	0.012	0.040	0.373	76
FREP XL-S300TC-20-6SPS	20 AWG 7/.0121	6	0.012	0.050	0.466	116
FREP XL-S300TC-20-8SPS	20 AWG 7/.0121	8	0.012	0.050	0.502	145
FREP XL-S300TC-20-12SPS	20 AWG 7/.0121	12	0.012	0.050	0.601	204
FREP XL-S300TC-20-16SPS	20 AWG 7/.0121	16	0.012	0.060	0.685	273
FREP XL-S300TC-20-20SPS	20 AWG 7/.0121	20	0.012	0.060	0.739	329
FREP XL-S300TC-20-24SPS	20 AWG 7/.0121	24	0.012	0.060	0.813	387
FREP XL-S300TC-20-36SPS	20 AWG 7/.0121	36	0.012	0.070	0.971	569
FREP XL-S300TC-20-50SPS	20 AWG 7/.0121	50	0.012	0.070	1.106	761
FREP XL-S300TC-18-2SPS	18 AWG 7/.0152	2	0.015	0.040	0.375	62
FREP XL-S300TC-18-4SPS	18 AWG 7/.0152	4	0.015	0.050	0.460	113
FREP XL-S300TC-18-6SPS	18 AWG 7/.0152	6	0.015	0.050	0.542	157
FREP XL-S300TC-18-8SPS	18 AWG 7/.0152	8	0.015	0.050	0.586	197
FREP XL-S300TC-18-12SPS	18 AWG 7/.0152	12	0.015	0.060	0.726	294
FREP XL-S300TC-18-16SPS	18 AWG 7/.0152	16	0.015	0.060	0.804	374
FREP XL-S300TC-18-20SPS	18 AWG 7/.0152	20	0.015	0.060	0.870	454
FREP XL-S300TC-18-24SPS	18 AWG 7/.0152	24	0.015	0.070	0.980	554
FREP XL-S300TC-18-36SPS	18 AWG 7/.0152	36	0.015	0.070	1.148	790
FREP XL-S300TC-18-50SPS	18 AWG 7/.0152	50	0.015	0.080	1.342	1099
FREP XL-S300TC-16-2SPS	16 AWG 7/.0192	2	0.015	0.050	0.441	90
FREP XL-S300TC-16-4SPS	16 AWG 7/.0192	4	0.015	0.050	0.510	148
FREP XL-S300TC-16-6SPS	16 AWG 7/.0192	6	0.015	0.050	0.604	208
FREP XL-S300TC-16-8SPS	16 AWG 7/.0192	8	0.015	0.060	0.674	276
FREP XL-S300TC-16-12SPS	16 AWG 7/.0192	12	0.015	0.060	0.812	393
FREP XL-S300TC-16-16SPS	16 AWG 7/.0192	16	0.015	0.070	0.921	522
FREP XL-S300TC-16-20SPS	16 AWG 7/.0192	20	0.015	0.070	0.997	633
FREP XL-S300TC-16-24SPS	16 AWG 7/.0192	24	0.015	0.070	1.099	749
FREP XL-S300TC-16-36SPS	16 AWG 7/.0192	36	0.015	0.080	1.322	1114
FREP XL-S300TC-16-50SPS	16 AWG 7/.0192	50	0.015	0.080	1.511	1499

Print: BICC CABLES XX/PR XXAWG SHIELDED (UL) TYPE PLTC 300V 105C SUN RES

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OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC 600V FREP XL

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP XL-S600TC-18-1PS	18 AWG 7/.0152	1	0.025	0.045	0.300	43
FREP XL-S600TC-18-1TS	**18 AWG 7/.0152**	**1TRI**	**0.025**	**0.045**	**0.316**	**54**
FREP XL-S600TC-18-2PS	18 AWG 7/.0152	2	0.025	0.045	0.462	77
FREP XL-S600TC-18-4PS	18 AWG 7/.0152	4	0.025	0.045	0.518	119
FREP XL-S600TC-18-6PS	18 AWG 7/.0152	6	0.025	0.060	0.632	183
FREP XL-S600TC-18-8PS	18 AWG 7/.0152	8	0.025	0.060	0.692	228
FREP XL-S600TC-18-12PS	18 AWG 7/.0152	12	0.025	0.060	0.810	317
FREP XL-S600TC-18-16PS	18 AWG 7/.0152	16	0.025	0.080	0.949	437
FREP XL-S600TC-18-20PS	18 AWG 7/.0152	20	0.025	0.080	0.989	518
FREP XL-S600TC-18-24PS	18 AWG 7/.0152	24	0.025	0.080	1.118	612
FREP XL-S600TC-18-36PS	18 AWG 7/.0152	36	0.025	0.080	1.266	858
FREP XL-S600TC-18-50PS	18 AWG 7/.0152	50	0.025	0.080	1.454	1148
FREP XL-S600TC-16-1PS	16 AWG 7/.0192	1	0.025	0.045	0.324	53
FREP XL-S600TC-16-1TS	**16 AWG 7/.0192**	**1TRI**	**0.025**	**0.045**	**0.342**	**68**
FREP XL-S600TC-16-2PS	16 AWG 7/.0192	2	0.025	0.045	0.506	97
FREP XL-S600TC-16-4PS	16 AWG 7/.0192	4	0.025	0.060	0.603	174
FREP XL-S600TC-16-6PS	16 AWG 7/.0192	6	0.025	0.060	0.692	237
FREP XL-S600TC-16-8PS	16 AWG 7/.0192	8	0.025	0.060	0.759	298
FREP XL-S600TC-16-12PS	16 AWG 7/.0192	12	0.025	0.080	0.932	453
FREP XL-S600TC-16-16PS	16 AWG 7/.0192	16	0.025	0.080	1.043	576
FREP XL-S600TC-16-20PS	16 AWG 7/.0192	20	0.025	0.080	1.087	688
FREP XL-S600TC-16-24PS	16 AWG 7/.0192	24	0.025	0.080	1.232	816
FREP XL-S600TC-16-36PS	16 AWG 7/.0192	36	0.025	0.080	1.398	1158
FREP XL-S600TC-16-50PS	16 AWG 7/.0192	50	0.025	0.080	1.609	1559

Print: "BICC CABLES FREP XL XX/PR/TRI XX AWG EPR/XL-CPE (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 600V" plus sequential footage mark.

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE TC 600V FREP XL

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP XL-S600TC-18-2SPS	18 AWG 7/.0152	2	0.025	0.045	0.473	85
FREP XL-S600TC-18-4SPS	18 AWG 7/.0152	4	0.025	0.060	0.586	153
FREP XL-S600TC-18-6SPS	18 AWG 7/.0152	6	0.025	0.060	0.693	210
FREP XL-S600TC-18-8SPS	18 AWG 7/.0152	8	0.025	0.060	0.751	260
FREP XL-S600TC-18-12SPS	18 AWG 7/.0152	12	0.025	0.080	0.948	401
FREP XL-S600TC-18-16SPS	18 AWG 7/.0152	16	0.025	0.080	1.050	504
FREP XL-S600TC-18-20SPS	18 AWG 7/.0152	20	0.025	0.080	1.137	605
FREP XL-S600TC-18-24SPS	18 AWG 7/.0152	24	0.025	0.080	1.254	710
FREP XL-S600TC-18-36SPS	18 AWG 7/.0152	36	0.025	0.080	1.474	1006
FREP XL-S600TC-18-50SPS	18 AWG 7/.0152	50	0.025	0.110	1.759	1455
FREP XL-S600TC-16-2SPS	16 AWG 7/.0192	2	0.025	0.045	0.516	105
FREP XL-S600TC-16-4SPS	16 AWG 7/.0192	4	0.025	0.060	0.637	191
FREP XL-S600TC-16-6SPS	16 AWG 7/.0192	6	0.025	0.060	0.757	265
FREP XL-S600TC-16-8SPS	16 AWG 7/.0192	8	0.025	0.060	0.821	332
FREP XL-S600TC-16-12SPS	16 AWG 7/.0192	12	0.025	0.080	1.037	509
FREP XL-S600TC-16-16SPS	16 AWG 7/.0192	16	0.025	0.080	1.151	646
FREP XL-S600TC-16-20SPS	16 AWG 7/.0192	20	0.025	0.080	1.248	779
FREP XL-S600TC-16-24SPS	16 AWG 7/.0192	24	0.025	0.080	1.378	918
FREP XL-S600TC-16-36SPS	16 AWG 7/.0192	36	0.025	0.080	1.624	1312
FREP XL-S600TC-16-50SPS	16 AWG 7/.0192	50	0.025	0.110	1.934	1886

Print: "BICC CABLES FREP XL XX/PR XX AWG EPR/XL-CPE (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 600V" plus sequential footage mark.

Dimensions and weights are nominal, subject to industry tolerance.

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EFFECTIVE 1998-09-30

FREP II INSTRUMENTATION CABLE

BICCCables

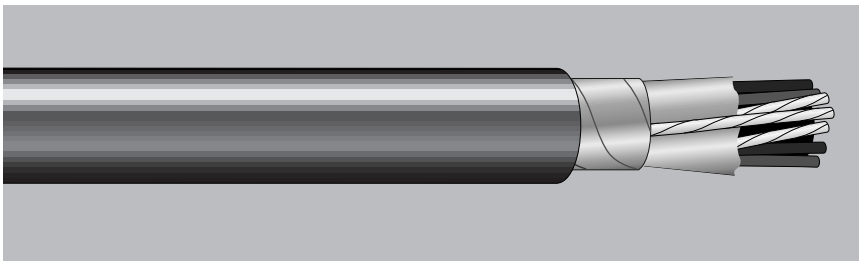
SPECIFICATION #FREP II-I-0001

INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE PLTC/ITC UL TYPE TC

300V/600V EPR/LSZH



Description

Conductors:
Tinned, annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant ethylene propylene rubber (EPR) Type II

Conductor Components:
Insulated single conductors are twisted into pairs, triads or multiple conductor components.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:

For Overall Shielded Pairs or Triads–

Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–

Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components

Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant, thermoplastic Low Smoke, Zero Halogen polyolefin

Options:
- Bare copper conductors
- Duralox® aluminum interlocked armor
- Frep II XL - Flame-retardant, thermoset Low Smoke, Zero Halogen polyolefin

Features and Benefits

Temperature Ratings:
- UL.....90°C Dry; 75°C Wet
- ICEA.....90°C Dry or Wet

FREP II Instrumentation Cable Listings:
- UL Type PLTC/ITC – 300 Volts
- UL Type TC – 600 Volts in conductor sizes #18 AWG – #12 AWG
- ICEA S-66-516 – 600 volts

Flame-Retardant EPR Insulation, UL Class XL and Type II in Accordance with ICEA S-68-516 (NEMA WC-8), Provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics (insulated conductors pass low temperature cold bend test at –50°C; completed cable passes at –35°C)

Low Smoke, Zero Halogen Jacket:
- Provides a high degree of flame resistance
- Exhibits significant reduction in emission of smoke and halogens over more conventional cables under conditions of fire
- Provides improved personnel and equipment safety during the hazards of fire

FREP II Instrumentation Cables:
- Are OSHA acceptable
- Meet the following Flame Tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)
  - UL 1277 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including minimal smoke and halogen emission when burned and flame retardance.

May Be Installed:
- In free air, raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)
- In enclosed areas where personnel and/or sensitive electronic equipment would be exposed to toxic emissions in the event of a fire

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EFFECTIVE 1999-01-31

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V FREP II

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP II-S300TC-20-1TS	**20 AWG 7/.0121**	**1TRI**	**0.015**	**0.040**	**0.240**	**32**
FREP II-S300TC-20-2PS	20 AWG 7/.0121	2	0.015	0.040	0.345	49
FREP II-S300TC-20-4PS	20 AWG 7/.0121	4	0.015	0.050	0.415	82
FREP II-S300TC-20-8PS	20 AWG 7/.0121	8	0.015	0.050	0.510	131
FREP II-S300TC-20-12PS	20 AWG 7/.0121	12	0.015	0.050	0.590	186
FREP II-S300TC-20-16PS	20 AWG 7/.0121	16	0.015	0.060	0.690	248
FREP II-S300TC-20-20PS	20 AWG 7/.0121	20	0.015	0.060	0.715	292
FREP II-S300TC-20-24PS	20 AWG 7/.0121	24	0.015	0.060	0.805	341
FREP II-S300TC-20-36PS	20 AWG 7/.0121	36	0.015	0.070	0.925	497
FREP II-S300TC-20-50PS	20 AWG 7/.0121	50	0.015	0.070	1.055	662
FREP II-S300TC-18-1TS	**18 AWG 7/.0152**	**1TRI**	**0.015**	**0.040**	**0.245**	**34**
FREP II-S300TC-18-2PS	18 AWG 7/.0152	2	0.015	0.040	0.380	62
FREP II-S300TC-18-4PS	18 AWG 7/.0152	4	0.015	0.050	0.455	105
FREP II-S300TC-18-8PS	18 AWG 7/.0152	8	0.015	0.050	0.565	160
FREP II-S300TC-18-12PS	18 AWG 7/.0152	12	0.015	0.060	0.690	261
FREP II-S300TC-18-16PS	18 AWG 7/.0152	16	0.015	0.060	0.765	329
FREP II-S300TC-18-20PS	18 AWG 7/.0152	20	0.015	0.060	0.800	391
FREP II-S300TC-18-24PS	18 AWG 7/.0152	24	0.015	0.060	0.900	459
FREP II-S300TC-18-36PS	18 AWG 7/.0152	36	0.015	0.070	1.035	678
FREP II-S300TC-18-50PS	18 AWG 7/.0152	50	0.015	0.070	1.185	902
FREP II-S300TC-16-2PS	16 AWG 7/.0192	2	0.015	0.050	0.455	89
FREP II-S300TC-16-4PS	16 AWG 7/.0192	4	0.015	0.050	0.505	141
FREP II-S300TC-16-8PS	16 AWG 7/.0192	8	0.015	0.060	0.665	230
FREP II-S300TC-16-12PS	16 AWG 7/.0192	12	0.015	0.060	0.770	355
FREP II-S300TC-16-16PS	16 AWG 7/.0192	16	0.015	0.060	0.860	453
FREP II-S300TC-16-20PS	16 AWG 7/.0192	20	0.015	0.070	0.915	561
FREP II-S300TC-16-24PS	16 AWG 7/.0192	24	0.015	0.070	1.035	661
FREP II-S300TC-16-36PS	16 AWG 7/.0192	36	0.015	0.070	1.170	947
FREP II-S300TC-16-50PS	16 AWG 7/.0192	50	0.015	0.080	1.360	1300

Print: BICC CABLES FREP II XX/ PR/TRI XX AWG SHIELDED INSTRUMENTATION CABLE DIR BUR SUN RES 300V

INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V FREP II

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP II-S300TC-20-1STS	**20 AWG 7/.0121**	**1TRI**	**0.015**	**0.040**	**0.240**	**32**
FREP II-S300TC-20-2SPS	20 AWG 7/.0121	2	0.015	0.040	0.370	57
FREP II-S300TC-20-4SPS	20 AWG 7/.0121	4	0.015	0.050	0.445	97
FREP II-S300TC-20-8SPS	20 AWG 7/.0121	8	0.015	0.050	0.550	171
FREP II-S300TC-20-12SPS	20 AWG 7/.0121	12	0.015	0.060	0.700	244
FREP II-S300TC-20-16SPS	20 AWG 7/.0121	16	0.015	0.060	0.770	305
FREP II-S300TC-20-20SPS	20 AWG 7/.0121	20	0.015	0.060	0.850	367
FREP II-S300TC-20-24SPS	20 AWG 7/.0121	24	0.015	0.070	0.935	446
FREP II-S300TC-20-36SPS	20 AWG 7/.0121	36	0.015	0.070	1.090	630
FREP II-S300TC-20-50SPS	20 AWG 7/.0121	50	0.015	0.080	1.310	865
FREP II-S300TC-18-1STS	**18 AWG 7/.0152**	**1TRI**	**0.015**	**0.040**	**0.245**	**34**
FREP II-S300TC-18-2SPS	18 AWG 7/.0152	2	0.015	0.050	0.425	81
FREP II-S300TC-18-4SPS	18 AWG 7/.0152	4	0.015	0.050	0.485	125
FREP II-S300TC-18-8SPS	18 AWG 7/.0152	8	0.015	0.050	0.635	224
FREP II-S300TC-18-12SPS	18 AWG 7/.0152	12	0.015	0.060	0.775	323
FREP II-S300TC-18-16SPS	18 AWG 7/.0152	16	0.015	0.060	0.855	408
FREP II-S300TC-18-20SPS	18 AWG 7/.0152	20	0.015	0.070	0.965	514
FREP II-S300TC-18-24SPS	18 AWG 7/.0152	24	0.015	0.070	1.040	605
FREP II-S300TC-18-36SPS	18 AWG 7/.0152	36	0.015	0.070	1.220	855
FREP II-S300TC-18-50SPS	18 AWG 7/.0152	50	0.015	0.080	1.460	1178
FREP II-S300TC-16-1STS	**16 AWG 7/.0192**	**1TRI**	**0.015**	**0.040**	**0.295**	**60**
FREP II-S300TC-16-2SPS	16 AWG 7/.0192	2	0.015	0.050	0.465	104
FREP II-S300TC-16-4SPS	16 AWG 7/.0192	4	0.015	0.050	0.540	170
FREP II-S300TC-16-8SPS	16 AWG 7/.0192	8	0.015	0.060	0.710	306
FREP II-S300TC-16-12SPS	16 AWG 7/.0192	12	0.015	0.060	0.865	442
FREP II-S300TC-16-16SPS	16 AWG 7/.0192	16	0.015	0.070	0.980	584
FREP II-S300TC-16-20SPS	16 AWG 7/.0192	20	0.015	0.070	1.080	715
FREP II-S300TC-16-24SPS	16 AWG 7/.0192	24	0.015	0.070	1.170	838
FREP II-S300TC-16-36SPS	16 AWG 7/.0192	36	0.015	0.080	1.390	1228
FREP II-S300TC-16-50SPS	16 AWG 7/.0192	50	0.015	0.090	1.665	1688

Print: BICC CABLES FREP II XX/ PR/TRI XX AWG SHIELDED INSTRUMENTATION CABLE DIR BUR SUN RES 300V

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EFFECTIVE 1998-09-30

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE PLTC/ITC 300V FREP II

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP II-S300TC-20-1STS	20 AWG 7/.0121	1TRI	0.015	0.040	0.240	32
FREP II-S300TC-20-2STS	20 AWG 7/.0121	2TRI	0.015	0.050	0.420	80
FREP II-S300TC-20-4STS	20 AWG 7/.0121	4TRI	0.015	0.050	0.485	124
FREP II-S300TC-20-8STS	20 AWG 7/.0121	8TRI	0.015	0.050	0.610	222
FREP II-S300TC-20-12STS	20 AWG 7/.0121	12TRI	0.015	0.060	0.765	320
FREP II-S300TC-20-16STS	20 AWG 7/.0121	16TRI	0.015	0.060	0.845	404
FREP II-S300TC-20-20STS	20 AWG 7/.0121	20TRI	0.015	0.070	0.950	509
FREP II-S300TC-20-24STS	20 AWG 7/.0121	24TRI	0.015	0.070	1.025	599
FREP II-S300TC-20-36STS	20 AWG 7/.0121	36TRI	0.015	0.070	1.200	846
FREP II-S300TC-18-1STS	18 AWG 7/.0152	1TRI	0.015	0.040	0.245	34
FREP II-S300TC-18-2STS	18 AWG 7/.0152	2TRI	0.015	0.050	0.430	101
FREP II-S300TC-18-4STS	18 AWG 7/.0152	4TRI	0.015	0.050	0.530	164
FREP II-S300TC-18-8STS	18 AWG 7/.0152	8TRI	0.015	0.060	0.700	296
FREP II-S300TC-18-12STS	18 AWG 7/.0152	12TRI	0.015	0.060	0.850	427
FREP II-S300TC-18-16STS	18 AWG 7/.0152	16TRI	0.015	0.070	0.960	565
FREP II-S300TC-18-20STS	18 AWG 7/.0152	20TRI	0.015	0.070	1.060	691
FREP II-S300TC-18-24STS	18 AWG 7/.0152	24TRI	0.015	0.070	1.145	810
FREP II-S300TC-18-36STS	18 AWG 7/.0152	36TRI	0.015	0.080	1.350	1185
FREP II-S300TC-16-1STS	16 AWG 7/.0192	1TRI	0.015	0.040	0.295	60
FREP II-S300TC-16-2STS	16 AWG 7/.0192	2TRI	0.015	0.050	0.510	134
FREP II-S300TC-16-4STS	16 AWG 7/.0192	4TRI	0.015	0.050	0.580	221
FREP II-S300TC-16-8STS	16 AWG 7/.0192	8TRI	0.015	0.060	0.780	416
FREP II-S300TC-16-12STS	16 AWG 7/.0192	12TRI	0.015	0.070	0.970	610
FREP II-S300TC-16-16STS	16 AWG 7/.0192	16TRI	0.015	0.070	1.080	787
FREP II-S300TC-16-20STS	16 AWG 7/.0192	20TRI	0.015	0.070	1.190	960
FREP II-S300TC-16-24STS	16 AWG 7/.0192	24TRI	0.015	0.080	1.310	1158
FREP II-S300TC-16-36STS	16 AWG 7/.0192	36TRI	0.015	0.080	1.535	1661

Print: BICC CABLES FREP II XX/TRI XX AWG SHIELDED INSTRUMENTATION CABLE DIR BUR SUN RES 300V

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC 600V FREP II

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP II-S600TC-20-1TS	**20 AWG 7/.0121**	**1TRI**	**0.025**	**0.045**	**0.315**	**50**
FREP II-S600TC-20-2PS	20 AWG 7/.0121	2	0.025	0.045	0.425	74
FREP II-S600TC-20-4PS	20 AWG 7/.0121	4	0.025	0.045	0.490	114
FREP II-S600TC-20-8PS	20 AWG 7/.0121	8	0.025	0.060	0.650	177
FREP II-S600TC-20-12PS	20 AWG 7/.0121	12	0.025	0.060	0.755	298
FREP II-S600TC-20-16PS	20 AWG 7/.0121	16	0.025	0.080	0.885	413
FREP II-S600TC-20-20PS	20 AWG 7/.0121	20	0.025	0.080	0.920	485
FREP II-S600TC-20-24PS	20 AWG 7/.0121	24	0.025	0.080	1.035	568
FREP II-S600TC-20-36PS	20 AWG 7/.0121	36	0.025	0.080	1.165	801
FREP II-S600TC-20-50PS	20 AWG 7/.0121	50	0.025	0.080	1.335	1064
FREP II-S600TC-18-1TS	**18 AWG 7/.0152**	**1TRI**	**0.025**	**0.045**	**0.315**	**54**
FREP II-S600TC-18-2PS	18 AWG 7/.0152	2	0.025	0.045	0.460	91
FREP II-S600TC-18-4PS	18 AWG 7/.0152	4	0.025	0.060	0.560	164
FREP II-S600TC-18-8PS	18 AWG 7/.0152	8	0.025	0.060	0.710	227
FREP II-S600TC-18-12PS	18 AWG 7/.0152	12	0.025	0.060	0.825	384
FREP II-S600TC-18-16PS	18 AWG 7/.0152	16	0.025	0.080	0.965	529
FREP II-S600TC-18-20PS	18 AWG 7/.0152	20	0.025	0.080	1.005	627
FREP II-S600TC-18-24PS	18 AWG 7/.0152	24	0.025	0.080	1.130	743
FREP II-S600TC-18-36PS	18 AWG 7/.0152	36	0.025	0.080	1.275	1051
FREP II-S600TC-18-50PS	18 AWG 7/.0152	50	0.025	0.080	1.465	1406
FREP II-S600TC-16-1TS	**16 AWG 7/.0192**	**1TRI**	**0.025**	**0.045**	**0.345**	**71**
FREP II-S600TC-16-2PS	16 AWG 7/.0192	2	0.025	0.045	0.505	116
FREP II-S600TC-16-4PS	16 AWG 7/.0192	4	0.025	0.060	0.615	213
FREP II-S600TC-16-8PS	16 AWG 7/.0192	8	0.025	0.060	0.775	290
FREP II-S600TC-16-12PS	16 AWG 7/.0192	12	0.025	0.080	0.945	559
FREP II-S600TC-16-16PS	16 AWG 7/.0192	16	0.025	0.080	1.055	718
FREP II-S600TC-16-20PS	16 AWG 7/.0192	20	0.025	0.080	1.100	860
FREP II-S600TC-16-24PS	16 AWG 7/.0192	24	0.025	0.080	1.245	1014
FREP II-S600TC-16-36PS	16 AWG 7/.0192	36	0.025	0.080	1.410	1450
FREP II-S600TC-16-50PS	16 AWG 7/.0192	50	0.025	0.080	1.620	1955

Print: BICC CABLES FREP II XX/PR/TRI XXAWG (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 90C WET OR DRY 600V plus sequential footage mark

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INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE TC 600V FREP II

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP II-S600TC-20-2SPS	20 AWG 7/.0121	2	0.025	0.045	0.465	80
FREP II-S600TC-20-4SPS	20 AWG 7/.0121	4	0.025	0.060	0.570	144
FREP II-S600TC-20-8SPS	20 AWG 7/.0121	8	0.025	0.060	0.735	214
FREP II-S600TC-20-12SPS	20 AWG 7/.0121	12	0.025	0.080	0.920	368
FREP II-S600TC-20-16SPS	20 AWG 7/.0121	16	0.025	0.080	1.020	463
FREP II-S600TC-20-20SPS	20 AWG 7/.0121	20	0.025	0.080	1.120	554
FREP II-S600TC-20-24SPS	20 AWG 7/.0121	24	0.025	0.080	1.210	642
FREP II-S600TC-20-36SPS	20 AWG 7/.0121	36	0.025	0.080	1.410	897
FREP II-S600TC-20-50SPS	20 AWG 7/.0121	50	0.025	0.110	1.615	1299
FREP II-S600TC-18-2SPS	18 AWG 7/.0152	2	0.025	0.045	0.495	97
FREP II-S600TC-18-4SPS	18 AWG 7/.0152	4	0.025	0.060	0.605	176
FREP II-S600TC-18-8SPS	18 AWG 7/.0152	8	0.025	0.060	0.785	269
FREP II-S600TC-18-12SPS	18 AWG 7/.0152	12	0.025	0.080	0.985	460
FREP II-S600TC-18-16SPS	18 AWG 7/.0152	16	0.025	0.080	1.085	583
FREP II-S600TC-18-20SPS	18 AWG 7/.0152	20	0.025	0.080	1.200	703
FREP II-S600TC-18-24SPS	18 AWG 7/.0152	24	0.025	0.080	1.295	1819
FREP II-S600TC-18-36SPS	18 AWG 7/.0152	36	0.025	0.080	1.520	1156
FREP II-S600TC-18-50SPS	18 AWG 7/.0152	50	0.025	0.110	1.795	1664
FREP II-S600TC-16-2SPS	16 AWG 7/.0192	2	0.025	0.060	0.625	144
FREP II-S600TC-16-4SPS	16 AWG 7/.0192	4	0.025	0.060	0.675	227
FREP II-S600TC-16-8SPS	16 AWG 7/.0192	8	0.025	0.080	0.905	326
FREP II-S600TC-16-12SPS	16 AWG 7/.0192	12	0.025	0.080	1.085	610
FREP II-S600TC-16-16SPS	16 AWG 7/.0192	16	0.025	0.080	1.200	773
FREP II-S600TC-16-20SPS	16 AWG 7/.0192	20	0.025	0.080	1.330	937
FREP II-S600TC-16-24SPS	16 AWG 7/.0192	24	0.025	0.080	1.435	1098
FREP II-S600TC-16-36SPS	16 AWG 7/.0192	36	0.025	0.080	1.690	1567
FREP II-S600TC-16-50SPS	16 AWG 7/.0192	50	0.025	0.010	1.995	2251

Print: BICC CABLES FREP II XX/PR XXAWG (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 90C WET OR DRY 600V plus sequential footage mark

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE TC 600V FREP II

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
FREP II-S600TC-20-2STS	20 AWG 7/.0121	2TRI	0.025	0.045	0.520	98
FREP II-S600TC-20-4STS	20 AWG 7/.0121	4TRI	0.025	0.060	0.605	178
FREP II-S600TC-20-8STS	20 AWG 7/.0121	8TRI	0.025	0.060	0.825	321
FREP II-S600TC-20-12STS	20 AWG 7/.0121	12TRI	0.025	0.080	1.035	463
FREP II-S600TC-20-16STS	20 AWG 7/.0121	16TRI	0.025	0.080	1.150	587
FREP II-S600TC-20-20STS	20 AWG 7/.0121	20TRI	0.025	0.080	1.270	707
FREP II-S600TC-20-24STS	20 AWG 7/.0121	24TRI	0.025	0.080	1.370	823
FREP II-S600TC-20-36STS	20 AWG 7/.0121	36TRI	0.025	0.080	1.610	1161
FREP II-S600TC-18-2STS	18 AWG 7/.0152	2TRI	0.025	0.060	0.580	141
FREP II-S600TC-18-4STS	18 AWG 7/.0152	4TRI	0.025	0.060	0.710	221
FREP II-S600TC-18-8STS	18 AWG 7/.0152	8TRI	0.025	0.060	0.860	407
FREP II-S600TC-18-12STS	18 AWG 7/.0152	12TRI	0.025	0.080	1.080	592
FREP II-S600TC-18-16STS	18 AWG 7/.0152	16TRI	0.025	0.080	1.195	748
FREP II-S600TC-18-20STS	18 AWG 7/.0152	20TRI	0.025	0.080	1.325	906
FREP II-S600TC-18-24STS	18 AWG 7/.0152	24TRI	0.025	0.080	1.430	1060
FREP II-S600TC-18-36STS	18 AWG 7/.0152	36TRI	0.025	0.110	1.740	1618
FREP II-S600TC-16-2STS	16 AWG 7/.0192	2TRI	0.025	0.060	0.635	177
FREP II-S600TC-16-4STS	16 AWG 7/.0192	4TRI	0.025	0.060	0.740	286
FREP II-S600TC-16-8STS	16 AWG 7/.0192	8TRI	0.025	0.080	0.990	535
FREP II-S600TC-16-12STS	16 AWG 7/.0192	12TRI	0.025	0.080	1.195	783
FREP II-S600TC-16-16STS	16 AWG 7/.0192	16TRI	0.025	0.080	1.325	999
FREP II-S600TC-16-20STS	16 AWG 7/.0192	20TRI	0.025	0.080	1.470	1217
FREP II-S600TC-16-24STS	16 AWG 7/.0192	24TRI	0.025	0.080	1.590	1430
FREP II-S600TC-16-36STS	16 AWG 7/.0192	36TRI	0.025	0.110	1.935	2176

Print: BICC CABLES FREP II XX/TRI XXAWG (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 90C WET OR DRY 600V plus sequential footage mark

Dimensions and weights are nominal, subject to industry tolerance.

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EFFECTIVE 1998-09-30

FREP INSTRUMENTATION CABLE

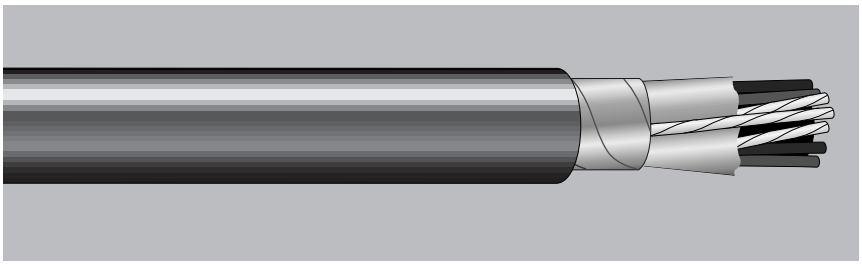
BICC Cables

SPECIFICATION #FREP-I-0001

INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE PLTC/ITC 300V EPR/CPE



Description

Conductors:
Tinned, annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant ethylene propylene rubber (EPR) Type II

Conductor Components:
Insulated single conductors are twisted into pairs or triads.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant thermoplastic chlorinated polyethylene (CPE)

Options:
- Bare copper conductors
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Rating:
- UL Type PLTC/ITC 105ºC

Instrumentation Cable Listing:
- UL Type PLTC/ITC - 300 Volts

Flame-Retardant EPR Insulation, UL Class XL and Type II, in Accordance with ICEA S-82-552, Provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics

Flame-Retardant CPE Jacket Provides:
- Excellent flame resistance – burns to an ash; does not exhibit "thermoplastic drip"
- Low coefficient of friction for easy pulling
- Excellent thermal and mechanical characteristics
- Excellent balance of physical properties contributes to ease of installation
- UL Oil Resistant II

FREP 300V Instrumentation Cables:
- Meet cold bend test at -35ºC
- Are OSHA acceptable
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including flame-retardance, resistance to moisture, chemicals, thermal stability and physical durability.

May Be Installed:
- In free air, raceways, or direct burial
- In wet or dry locations
- At temperatures as low as -35ºC
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)

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EFFECTIVE 1999-01-31

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V FREP

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86820 (1PR/20)	20 AWG 7/.0121	1	0.015	0.035	0.210	23
T-86820 (1TRI/20)	**20 AWG 7/.0121**	**1 TRI**	**0.015**	**0.035**	**0.220**	**36**
T-86820 (2PR/20)	20 AWG 7/.0121	2	0.015	0.040	0.312	42
T-86820 (4PR/20)	20 AWG 7/.0121	4	0.015	0.040	0.361	65
T-86820 (8PR/20)	20 AWG 7/.0121	8	0.015	0.050	0.476	120
T-86820 (12PR/20)	20 AWG 7/.0121	12	0.015	0.050	0.552	165
T-86820 (16PR/20)	20 AWG 7/.0121	16	0.015	0.060	0.636	221
T-86820 (20PR/20)	20 AWG 7/.0121	20	0.015	0.060	0.662	261
T-86820 (24PR/20)	20 AWG 7/.0121	24	0.015	0.060	0.745	309
T-86820 (36PR/20)	20 AWG 7/.0121	36	0.015	0.060	0.841	434
T-86820 (50PR/20)	20 AWG 7/.0121	50	0.015	0.070	0.993	606
T-86820 (1PR/18)	18 AWG 7/.0152	1	0.015	0.035	0.238	30
T-86820 (1TRI/18)	**18 AWG 7/.0152**	**1 TRI**	**0.015**	**0.035**	**0.251**	**49**
T-86820 (2PR/18)	18 AWG 7/.0152	2	0.015	0.040	0.361	56
T-86820 (4PR/18)	18 AWG 7/.0152	4	0.015	0.050	0.445	100
T-86820 (8PR/18)	18 AWG 7/.0152	8	0.015	0.050	0.554	169
T-86820 (12PR/18)	18 AWG 7/.0152	12	0.015	0.060	0.668	249
T-86820 (16PR/18)	18 AWG 7/.0152	16	0.015	0.060	0.745	317
T-86820 (20PR/18)	18 AWG 7/.0152	20	0.015	0.060	0.777	379
T-86820 (24PR/18)	18 AWG 7/.0152	24	0.015	0.060	0.878	450
T-86820 (36PR/18)	18 AWG 7/.0152	36	0.015	0.070	1.015	657
T-86820 (50PR/18)	18 AWG 7/.0152	50	0.015	0.070	1.163	882
T-86820 (1PR/16)	16 AWG 7/.0192	1	0.015	0.035	0.262	39
T-86820 (1TRI/16)	**16 AWG 7/.0192**	**1 TRI**	**0.015**	**0.040**	**0.287**	**69**
T-86820 (2PR/16)	16 AWG 7/.0192	2	0.015	0.050	0.427	83
T-86820 (4PR/16)	16 AWG 7/.0192	4	0.015	0.050	0.495	134
T-86820 (8PR/16)	16 AWG 7/.0192	8	0.015	0.060	0.641	245
T-86820 (12PR/16)	16 AWG 7/.0192	12	0.015	0.060	0.749	345
T-86820 (16PR/16)	16 AWG 7/.0192	16	0.015	0.060	0.839	443
T-86820 (20PR/16)	16 AWG 7/.0192	20	0.015	0.060	0.875	535
T-86820 (24PR/16)	16 AWG 7/.0192	24	0.015	0.070	1.012	653
T-86820 (36PR/16)	16 AWG 7/.0192	36	0.015	0.070	1.047	934
T-86820 (50PR/16)	16 AWG 7/.0192	50	0.015	0.080	1.338	1286
Print: BICC CABLES XX/PR/TRI XXAWG SHIELDED (UL) TYPE PLTC 300V 105C SUN RES						

Dimensions and weights are nominal, subject to industry tolerance.

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EFFECTIVE 1998-09-30

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE PLTC/ITC 300V FREP

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86810 (2PR/20)	20 AWG 7/.0121	2	0.015	0.040	0.325	46
T-86810 (4PR/20)	20 AWG 7/.0121	4	0.015	0.040	0.373	75
T-86810 (8PR/20)	20 AWG 7/.0121	8	0.015	0.050	0.502	142
T-86810 (12PR/20)	20 AWG 7/.0121	12	0.015	0.050	0.601	201
T-86810 (16PR/20)	20 AWG 7/.0121	16	0.015	0.060	0.685	269
T-86810 (20PR/20)	20 AWG 7/.0121	20	0.015	0.060	0.739	324
T-86810 (24PR/20)	20 AWG 7/.0121	24	0.015	0.060	0.813	382
T-86810 (36PR/20)	20 AWG 7/.0121	36	0.015	0.070	0.971	563
T-86810 (50PR/20)	20 AWG 7/.0121	50	0.015	0.070	1.106	753
T-86810 (2PR/18)	18 AWG 7/.0152	2	0.015	0.040	0.375	61
T-86810 (4PR/18)	18 AWG 7/.0152	4	0.015	0.050	0.460	111
T-86810 (8PR/18)	18 AWG 7/.0152	8	0.015	0.050	0.586	194
T-86810 (12PR/18)	18 AWG 7/.0152	12	0.015	0.060	0.726	290
T-86810 (16PR/18)	18 AWG 7/.0152	16	0.015	0.060	0.804	370
T-86810 (20PR/18)	18 AWG 7/.0152	20	0.015	0.060	0.870	449
T-86810 (24PR/18)	18 AWG 7/.0152	24	0.015	0.070	1.980	547
T-86810 (36PR/18)	18 AWG 7/.0152	36	0.015	0.070	1.148	783
T-86810 (50PR/18)	18 AWG 7/.0152	50	0.015	0.080	1.342	1088
T-86810 (2PR/16)	16 AWG 7/.0192	2	0.015	0.050	0.441	88
T-86810 (4PR/16)	16 AWG 7/.0192	4	0.015	0.050	0.510	145
T-86810 (8PR/16)	16 AWG 7/.0192	8	0.015	0.060	0.674	272
T-86810 (12PR/16)	16 AWG 7/.0192	12	0.015	0.060	0.812	389
T-86810 (16PR/16)	16 AWG 7/.0192	16	0.015	0.070	0.921	516
T-86810 (20PR/16)	16 AWG 7/.0192	20	0.015	0.070	0.997	627
T-86810 (24PR/16)	16 AWG 7/.0192	24	0.015	0.070	1.099	741
T-86810 (36PR/16)	16 AWG 7/.0192	36	0.015	0.080	1.322	1104
T-86810 (50PR/16)	16 AWG 7/.0192	50	0.015	0.080	1.511	1486
Print: BICC CABLES XX/PR XXAWG SHIELDED (UL) TYPE PLTC 300V 105C SUN RES						

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE PLTC/ITC 300V FREP

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86815 (2TRI/20)	20 AWG 7/.0121	2TRI	0.015	0.050	0.405	65
T-86815 (4TRI/20)	20 AWG 7/.0121	4TRI	0.015	0.050	0.470	115
T-86815 (8TRI/20)	20 AWG 7/.0121	8TRI	0.015	0.050	0.600	207
T-86815 (12TRI/20)	20 AWG 7/.0121	12TRI	0.015	0.060	0.755	302
T-86815 (16TRI/20)	20 AWG 7/.0121	16TRI	0.015	0.060	0.835	385
T-86815 (20TRI/20)	20 AWG 7/.0121	20TRI	0.015	0.070	0.940	485
T-86815 (24TRI/20)	20 AWG 7/.0121	24TRI	0.015	0.070	1.015	568
T-86815 (36TRI/20)	20 AWG 7/.0121	36TRI	0.015	0.070	1.190	815
T-86815 (2TRI/18)	18 AWG 7/.0152	2TRI	0.015	0.050	0.450	92
T-86815 (4TRI/18)	18 AWG 7/.0152	4TRI	0.015	0.050	0.520	154
T-86815 (8TRI/18)	18 AWG 7/.0152	8TRI	0.015	0.060	0.695	279
T-86815 (12TRI/18)	18 AWG 7/.0152	12TRI	0.015	0.060	0.840	408
T-86815 (16TRI/18)	18 AWG 7/.0152	16TRI	0.015	0.070	0.950	540
T-86815 (20TRI/18)	18 AWG 7/.0152	20TRI	0.015	0.070	1.050	663
T-86815 (24TRI/18)	18 AWG 7/.0152	24TRI	0.015	0.070	1.135	779
T-86815 (36TRI/18)	18 AWG 7/.0152	36TRI	0.015	0.080	1.390	1145
T-86815 (2TRI/16)	16 AWG 7/.0192	2TRI	0.015	0.050	0.500	122
T-86815 (4TRI/16)	16 AWG 7/.0192	4TRI	0.015	0.050	0.580	209
T-86815 (8TRI/16)	16 AWG 7/.0192	8TRI	0.015	0.060	0.780	417
T-86815 (12TRI/16)	16 AWG 7/.0192	12TRI	0.015	0.070	0.960	586
T-86815 (16TRI/16)	16 AWG 7/.0192	16TRI	0.015	0.070	1.070	759
T-86815 (20TRI/16)	16 AWG 7/.0192	20TRI	0.015	0.070	1.185	929
T-86815 (24TRI/16)	16 AWG 7/.0192	24TRI	0.015	0.080	1.300	1096
T-86815 (36TRI/16)	16 AWG 7/.0192	36TRI	0.015	0.080	1.525	1617
Print: BICC CABLES XX/TRI XXAWG SHIELDED (UL) TYPE PLTC 300V 105C SUN RES						

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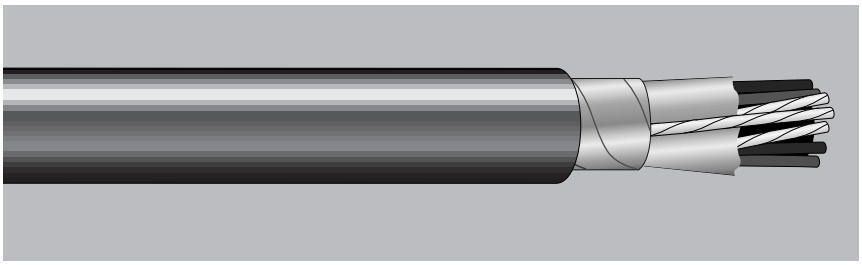
INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE TC 600V EPR/CPE



Description

Conductors:
Tinned, annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant ethylene propylene rubber (EPR) Type II

Conductor Components:
Insulated single conductors are twisted into pairs or triads.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant thermoplastic chlorinated polyethylene (CPE)

Options:
- Bare copper conductors
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Rating:
- UL Type TC .....90°C

EPR/CPE Instrumentation Cable Listings:
- UL Type TC - 600 Volts in conductor sizes #18 AWG - #16 AWG
- ICEA S-82-552 - 600 Volts

Flame-Retardant EPR Insulation, UL Class XL and Type II in Accordance with ICEA S-82-552, Provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts, and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics (insulated conductors pass low temperature cold bend test at -50°C; completed cable passes at -35°C)

Flame-Retardant CPE Jacket Provides:
- Excellent flame resistance – burns to an ash; does not exhibit "thermoplastic drip"
- Low coefficient of friction for easy pulling
- Excellent thermal and mechanical properties
- Excellent balance of physical properties contributes to ease of installation
- Low heat deformation
- Sunlight and weather resistance
- UL Oil Resistant II

FREP 600V Instrumentation Cables:
- Are OSHA acceptable
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - ICEA T-29-520 (210,000 BTU/hr)
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 1277 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including flame-retardance, resistance to moisture, chemicals, thermal stability and physical durability.

May Be Installed:
- In free air, raceways, or direct burial
- In wet or dry locations
- At temperatures as low as -35°C
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b) for UL Type TC cables

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EFFECTIVE 1999-01-31

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC 600V FREP

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-87820(2PR/20)	20 AWG 7/.0121	2	0.025	0.045	0.410	61
T-87820(4PR/20)	20 AWG 7/.0121	4	0.025	0.045	0.470	92
T-87820(8PR/20)	20 AWG 7/.0121	8	0.025	0.060	0.630	180
T-87820(12PR/20)	20 AWG 7/.0121	12	0.025	0.060	0.740	242
T-87820(16PR/20)	20 AWG 7/.0121	16	0.025	0.060	0.825	338
T-87820(20PR/20)	20 AWG 7/.0121	20	0.025	0.080	0.900	395
T-87820(24PR/20)	20 AWG 7/.0121	24	0.025	0.080	1.015	464
T-87820(36PR/20)	20 AWG 7/.0121	36	0.025	0.080	1.150	652
T-87820(50PR/20)	20 AWG 7/.0121	50	0.025	0.080	1.315	862
T-87820(1PR/18)	18 AWG 7/.0152	1	0.025	0.045	0.300	42
T-87820(1TRI/18)	**18 AWG 7/.0152**	**1 TRI**	**0.025**	**0.045**	**0.316**	**53**
T-87820(2PR/18)	18 AWG 7/.0152	2	0.025	0.045	0.462	75
T-87820(4PR/18)	18 AWG 7/.0152	4	0.025	0.045	0.518	117
T-87820(8PR/18)	18 AWG 7/.0152	8	0.025	0.060	0.692	224
T-87820(12PR/18)	18 AWG 7/.0152	12	0.025	0.060	0.810	312
T-87820(16PR/18)	18 AWG 7/.0152	16	0.025	0.080	0.949	430
T-87820(20PR/18)	18 AWG 7/.0152	20	0.025	0.080	0.989	510
T-87820(24PR/18)	18 AWG 7/.0152	24	0.025	0.080	1.118	604
T-87820(36PR/18)	18 AWG 7/.0152	36	0.025	0.080	1.266	849
T-87820(50PR/18)	18 AWG 7/.0152	50	0.025	0.080	1.454	1137
T-87820(1PR/16)	16 AWG 7/.0192	1	0.025	0.045	0.324	52
T-87820(1TRI/16)	**16 AWG 7/.0192**	**1 TRI**	**0.025**	**0.045**	**0.342**	**66**
T-87820(2PR/16)	16 AWG 7/.0192	2	0.025	0.045	0.506	95
T-87820(4PR/16)	16 AWG 7/.0192	4	0.025	0.060	0.603	171
T-87820(8PR/16)	16 AWG 7/.0192	8	0.025	0.060	0.759	294
T-87820(12PR/16)	16 AWG 7/.0192	12	0.025	0.080	0.932	446
T-87820(16PR/16)	16 AWG 7/.0192	16	0.025	0.080	1.043	568
T-87820(20PR/16)	16 AWG 7/.0192	20	0.025	0.080	1.087	680
T-87820(24PR/16)	16 AWG 7/.0192	24	0.025	0.080	1.232	807
T-87820(36PR/16)	16 AWG 7/.0192	36	0.025	0.080	1.398	1147
T-87820(50PR/16)	16 AWG 7/.0192	50	0.025	0.080	1.609	1547

Print: BICC CABLES XX/PR/TRI XXAWG SHIELDED INSTRUMENTATION CABLE DIR BUR SUN RES 600V, sequential footage mark

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EFFECTIVE 1998-09-30

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE TC 600V FREP

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-87810(2PR/20)	20 AWG 7/.0121	2	0.025	0.045	0.410	61
T-87810(4PR/20)	20 AWG 7/.0121	4	0.025	0.045	0.470	92
T-87810(8PR/20)	20 AWG 7/.0121	8	0.025	0.060	0.630	180
T-87810(12PR/20)	20 AWG 7/.0121	12	0.025	0.060	0.740	242
T-87810(16PR/20)	20 AWG 7/.0121	16	0.025	0.060	0.825	338
T-87810(20PR/20)	20 AWG 7/.0121	20	0.025	0.080	0.900	395
T-87810(24PR/20)	20 AWG 7/.0121	24	0.025	0.080	1.015	464
T-87810(36PR/20)	20 AWG 7/.0121	36	0.025	0.080	1.150	652
T-87810(50PR/20)	20 AWG 7/.0121	50	0.025	0.080	1.315	862
T-87810(2PR/18)	18 AWG 7/.0152	2	0.025	0.045	0.473	83
T-87810(4PR/18)	18 AWG 7/.0152	4	0.025	0.060	0.586	152
T-87810(8PR/18)	18 AWG 7/.0152	8	0.025	0.060	0.751	259
T-87810(12PR/18)	18 AWG 7/.0152	12	0.025	0.080	0.948	398
T-87810(16PR/18)	18 AWG 7/.0152	16	0.025	0.080	1.050	502
T-87810(20PR/18)	18 AWG 7/.0152	20	0.025	0.080	1.137	603
T-87810(24PR/18)	18 AWG 7/.0152	24	0.025	0.080	1.254	709
T-87810(36PR/18)	18 AWG 7/.0152	36	0.025	0.080	1.474	1008
T-87810(50PR/18)	18 AWG 7/.0152	50	0.025	0.110	1.759	1454
T-87810(2PR/16)	16 AWG 7/.0192	2	0.025	0.045	0.516	103
T-87810(4PR/16)	16 AWG 7/.0192	4	0.025	0.060	0.637	189
T-87810(8PR/16)	16 AWG 7/.0192	8	0.025	0.060	0.821	330
T-87810(12PR/16)	16 AWG 7/.0192	12	0.025	0.080	1.037	506
T-87810(16PR/16)	16 AWG 7/.0192	16	0.025	0.080	1.151	643
T-87810(20PR/16)	16 AWG 7/.0192	20	0.025	0.080	1.248	777
T-87810(24PR/16)	16 AWG 7/.0192	24	0.025	0.080	1.378	916
T-87810(36PR/16)	16 AWG 7/.0192	36	0.025	0.080	1.624	1312
T-87810(50PR/16)	16 AWG 7/.0192	50	0.025	0.110	1.934	1883
Print: BICC CABLES XX/PR XXAWG SHIELDED INSTRUMENTATION CABLE DIR BUR SUN RES 600V, sequential footage mark						

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE TC 600V FREP

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-87815(2TRI/20)	20 AWG 7/.0121	2TRI	0.025	0.045	0.505	88
T-87815(4TRI/20)	20 AWG 7/.0121	4TRI	0.025	0.060	0.620	161
T-87815(8TRI/20)	20 AWG 7/.0121	8TRI	0.025	0.060	0.810	310
T-87815(12TRI/20)	20 AWG 7/.0121	12TRI	0.025	0.080	1.020	426
T-87815(16TRI/20)	20 AWG 7/.0121	16TRI	0.025	0.080	1.130	541
T-87815(20TRI/20)	20 AWG 7/.0121	20TRI	0.025	0.080	1.255	653
T-87815(24TRI/20)	20 AWG 7/.0121	24TRI	0.025	0.080	1.355	761
T-87815(36TRI/20)	20 AWG 7/.0121	36TRI	0.025	0.080	1.595	1076
T-87815(2TRI/18)	18 AWG 7/.0152	2TRI	0.025	0.060	0.560	127
T-87815(4TRI/18)	18 AWG 7/.0152	4TRI	0.025	0.060	0.655	201
T-87815(8TRI/18)	18 AWG 7/.0152	8TRI	0.025	0.080	0.885	365
T-87815(12TRI/18)	18 AWG 7/.0152	12TRI	0.025	0.080	1.065	547
T-87815(16TRI/18)	18 AWG 7/.0152	16TRI	0.025	0.080	1.180	693
T-87815(20TRI/18)	18 AWG 7/.0152	20TRI	0.025	0.080	1.310	841
T-87815(24TRI/18)	18 AWG 7/.0152	24TRI	0.025	0.080	1.415	985
T-87815(36TRI/18)	18 AWG 7/.0152	36TRI	0.025	0.080	1.665	1407
T-87815(2TRI/16)	16 AWG 7/.0192	2TRI	0.025	0.060	0.615	159
T-87815(4TRI/16)	16 AWG 7/.0192	4TRI	0.025	0.060	0.725	261
T-87815(8TRI/16)	16 AWG 7/.0192	8TRI	0.025	0.080	0.975	530
T-87815(12TRI/16)	16 AWG 7/.0192	12TRI	0.025	0.080	1.180	721
T-87815(16TRI/16)	16 AWG 7/.0192	16TRI	0.025	0.080	1.310	922
T-87815(20TRI/16)	16 AWG 7/.0192	20TRI	0.025	0.080	1.455	1121
T-87815(24TRI/16)	16 AWG 7/.0192	24TRI	0.025	0.080	1.575	1323
T-87815(36TRI/16)	16 AWG 7/.0192	36TRI	0.025	0.110	1.920	2012
Print: BICC CABLES XX/TRI XXAWG SHIELDED INSTRUMENTATION CABLE DIR BUR SUN RES 600V, sequential footage mark						

Dimensions and weights are nominal, subject to industry tolerance.

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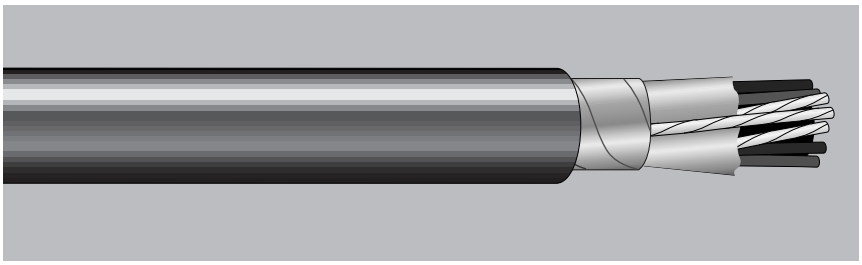
INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE PLTC/ITC 300V XLPO/HYP



Description

Conductors:
Tinned, annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant cross-linked polyolefin (XLPO)

Conductor Components:
Insulated single conductors are twisted into pairs or triads.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
"Low Lead" Hypalon® chloro-sulphonated polyethylene (CSPE)

Options:
- Bare copper conductors
- Braid shields
- Thermoplastic Low Smoke, Zero Halogen jacket
- Thermoset Low Smoke, Zero Halogen jacket
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Ratings:
- UL 90ºC

Instrumentation Cable listings:
- UL Type PLTC/ITC - 300 Volts

Flame-Retardant XLPO Insulation, UL Class XL, Provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics

Flame-Retardant Hypalon® Jacket Provides:
- Excellent flame and radiation resistance
- Excellent thermal and mechanical properties
- Good abrasion resistance
- Low moisture absorption characteristics
- "Heavy duty" rating per ICEA standards

CH-PLTC Instrumentation Cables:
- Meet cold bend test at -45ºC
- Are OSHA acceptable
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including flame-retardance, resistance to moisture, chemicals and physical durability. Typical applications include audio, intercom, control, energy management and alarm circuits.

May Be Installed:
- In free air or raceways
- In wet or dry locations
- At temperatures as low as -45ºC
- In Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)

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OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V CHIC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86220 (1PR/20)	20 AWG 7/.0121	1	0.015	0.035	0.216	24
T-86220 (1TRI/20)	**20 AWG 7/.0121**	**1 TRI**	**0.015**	**0.035**	**0.225**	**28**
T-86220 (2PR/20)	20 AWG 7/.0121	2	0.015	0.040	0.330	43
T-86220 (4PR/20)	20 AWG 7/.0121	4	0.015	0.040	0.380	66
T-86220 (8PR/20)	20 AWG 7/.0121	8	0.015	0.050	0.495	120
T-86220 (12PR/20)	20 AWG 7/.0121	12	0.015	0.050	0.575	173
T-86220 (16PR/20)	20 AWG 7/.0121	16	0.015	0.060	0.675	231
T-86220 (20PR/20)	20 AWG 7/.0121	20	0.015	0.060	0.700	274
T-86220 (24PR/20)	20 AWG 7/.0121	24	0.015	0.060	0.790	322
T-86220 (36PR/20)	20 AWG 7/.0121	36	0.015	0.070	0.910	472
T-86220 (50PR/20)	20 AWG 7/.0121	50	0.015	0.070	1.040	634
T-86220 (1PR/18)	18 AWG 7/.0152	1	0.015	0.035	0.240	30
T-86220 (1TRI/18)	**18 AWG 7/.0152**	**1 TRI**	**0.015**	**0.035**	**0.252**	**40**
T-86220 (2PR/18)	18 AWG 7/.0152	2	0.015	0.040	0.365	54
T-86220 (4PR/18)	18 AWG 7/.0152	4	0.015	0.050	0.440	94
T-86220 (8PR/18)	18 AWG 7/.0152	8	0.015	0.050	0.550	150
T-86220 (12PR/18)	18 AWG 7/.0152	12	0.015	0.060	0.675	243
T-86220 (16PR/18)	18 AWG 7/.0152	16	0.015	0.060	0.750	310
T-86220 (20PR/18)	18 AWG 7/.0152	20	0.015	0.060	0.785	371
T-86220 (24PR/18)	18 AWG 7/.0152	24	0.015	0.070	0.905	438
T-86220 (36PR/18)	18 AWG 7/.0152	36	0.015	0.070	1.020	648
T-86220 (50PR/18)	18 AWG 7/.0152	50	0.015	0.070	1.170	870
T-86220 (1PR/16)	16 AWG 7/.0192	1	0.015	0.035	0.257	41
T-86220 (1TRI/16)	**16 AWG 7/.0192**	**1 TRI**	**0.015**	**0.035**	**0.270**	**52**
T-86220 (2PR/16)	16 AWG 7/.0192	2	0.015	0.050	0.430	78
T-86220 (4PR/16)	16 AWG 7/.0192	4	0.015	0.050	0.490	127
T-86220 (8PR/16)	16 AWG 7/.0192	8	0.015	0.060	0.650	220
T-86220 (12PR/16)	16 AWG 7/.0192	12	0.015	0.060	0.755	335
T-86220 (16PR/16)	16 AWG 7/.0192	16	0.015	0.060	0.845	431
T-86220 (20PR/16)	16 AWG 7/.0192	20	0.015	0.060	0.880	535
T-86220 (24PR/16)	16 AWG 7/.0192	24	0.015	0.070	1.020	632
T-86220 (36PR/16)	16 AWG 7/.0192	36	0.015	0.070	1.155	914
T-86220 (50PR/16)	16 AWG 7/.0192	50	0.015	0.080	1.345	1258

Print: BICC CABLES CHIC XX/PR/TRI XXAWG SHIELDED (UL) TYPE PLTC 300V 90C SUN RES

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INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE PLTC/ITC 300V CHIC

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86210 (2PR/20)	20 AWG 7/.0121	2	0.015	0.040	0.355	49
T-86210 (4PR/20)	20 AWG 7/.0121	4	0.015	0.050	0.430	86
T-86210 (8PR/20)	20 AWG 7/.0121	8	0.015	0.050	0.550	155
T-86210 (12PR/20)	20 AWG 7/.0121	12	0.015	0.060	0.690	224
T-86210 (16PR/20)	20 AWG 7/.0121	16	0.015	0.060	0.760	283
T-86210 (20PR/20)	20 AWG 7/.0121	20	0.015	0.060	0.840	343
T-86210 (24PR/20)	20 AWG 7/.0121	24	0.015	0.070	0.925	417
T-86210 (36PR/20)	20 AWG 7/.0121	36	0.015	0.070	1.080	594
T-86210 (50PR/20)	20 AWG 7/.0121	50	0.015	0.070	1.235	819
T-86210 (2PR/18)	18 AWG 7/.0152	2	0.015	0.050	0.410	70
T-86210 (4PR/18)	18 AWG 7/.0152	4	0.015	0.050	0.475	113
T-86210 (8PR/18)	18 AWG 7/.0152	8	0.015	0.060	0.635	211
T-86210 (12PR/18)	18 AWG 7/.0152	12	0.015	0.060	0.765	300
T-86210 (16PR/18)	18 AWG 7/.0152	16	0.015	0.060	0.845	383
T-86210 (20PR/18)	18 AWG 7/.0152	20	0.015	0.070	0.955	483
T-86210 (24PR/18)	18 AWG 7/.0152	24	0.015	0.070	1.030	571
T-86210 (36PR/18)	18 AWG 7/.0152	36	0.015	0.070	1.210	816
T-86210 (50PR/18)	18 AWG 7/.0152	50	0.015	0.080	1.400	1126
T-86210 (2PR/16)	16 AWG 7/.0192	2	0.015	0.050	0.455	92
T-86210 (4PR/16)	16 AWG 7/.0192	4	0.015	0.050	0.530	156
T-86210 (8PR/16)	16 AWG 7/.0192	8	0.015	0.060	0.710	287
T-86210 (12PR/16)	16 AWG 7/.0192	12	0.015	0.060	0.855	417
T-86210 (16PR/16)	16 AWG 7/.0192	16	0.015	0.070	0.970	553
T-86210 (20PR/16)	16 AWG 7/.0192	20	0.015	0.070	1.070	680
T-86210 (24PR/16)	16 AWG 7/.0192	24	0.015	0.070	1.160	800
T-86210 (36PR/16)	16 AWG 7/.0192	36	0.015	0.080	1.380	1177
T-86210 (50PR/16)	16 AWG 7/.0192	50	0.015	0.080	1.580	1595
Print: BICC CABLES CHIC XX/PR XXAWG SHIELDED (UL) TYPE PLTC 300V 90C SUN RES						

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE PLTC/ITC 300V CHIC

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86215 (2TRI/20)	20 AWG 7/.0121	2TRI	0.015	0.040	0.385	61
T-86215 (4TRI/20)	20 AWG 7/.0121	4TRI	0.015	0.050	0.465	108
T-86215 (8TRI/20)	20 AWG 7/.0121	8TRI	0.015	0.050	0.590	197
T-86215 (12TRI/20)	20 AWG 7/.0121	12TRI	0.015	0.060	0.745	285
T-86215 (16TRI/20)	20 AWG 7/.0121	16TRI	0.015	0.060	0.825	363
T-86215 (20TRI/20)	20 AWG 7/.0121	20TRI	0.015	0.070	0.935	458
T-86215 (24TRI/20)	20 AWG 7/.0121	24TRI	0.015	0.070	1.010	536
T-86215 (36TRI/20)	20 AWG 7/.0121	36TRI	0.015	0.070	1.185	770
T-86215 (2TRI/18)	18 AWG 7/.0152	2TRI	0.015	0.050	0.455	87
T-86215 (4TRI/18)	18 AWG 7/.0152	4TRI	0.015	0.050	0.515	146
T-86215 (8TRI/18)	18 AWG 7/.0152	8TRI	0.015	0.060	0.685	267
T-86215(12TRI/18)	18 AWG 7/.0152	12TRI	0.015	0.060	0.835	388
T-86215 (16TRI/18)	18 AWG 7/.0152	16TRI	0.015	0.070	0.945	515
T-86215 (20TRI/18)	18 AWG 7/.0152	20TRI	0.015	0.070	1.045	632
T-86215 (24TRI/18)	18 AWG 7/.0152	24TRI	0.015	0.070	1.130	743
T-86215 (36TRI/18)	18 AWG 7/.0152	36TRI	0.015	0.080	1.350	1093
T-86215 (2TRI/16)	16 AWG 7/.0192	2TRI	0.015	0.050	0.495	116
T-86215 (4TRI/16)	16 AWG 7/.0192	4TRI	0.015	0.050	0.575	200
T-86215 (8TRI/16)	16 AWG 7/.0192	8TRI	0.015	0.060	0.765	381
T-86215 (12TRI/16)	16 AWG 7/.0192	12TRI	0.015	0.070	0.955	562
T-86215 (16TRI/16)	16 AWG 7/.0192	16TRI	0.015	0.070	1.060	729
T-86215 (20TRI/16)	16 AWG 7/.0192	20TRI	0.015	0.070	1.175	893
T-86215 (24TRI/16)	16 AWG 7/.0192	24TRI	0.015	0.080	1.290	1077
T-86215 (36TRI/16)	16 AWG 7/.0192	36TRI	0.015	0.080	1.520	1557
Print: BICC CABLES CHIC XX/TRI XXAWG SHIELDED (UL) TYPE PLTC 300V 90C SUN RES						

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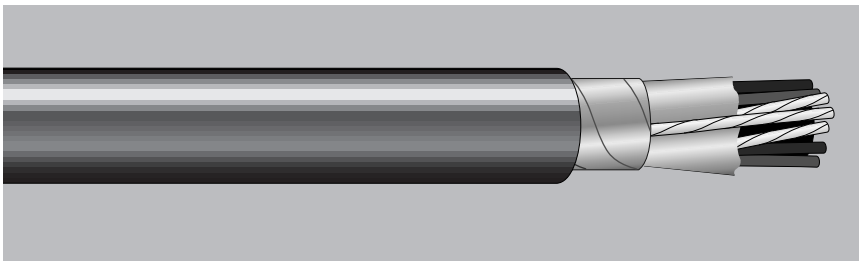
INDIVIDUAL AND OVERALL SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE TC 600V

XLPO/HYP



Description

Conductors:
Tinned, annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#18 AWG through #16 AWG

Insulation:
Color coded, flame-retardant cross-linked polyolefin (XLPO)

Conductor Components:
Insulated single conductors are twisted into pairs, triads or multiple conductor components.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
"Low Lead" Hypalon® chloro-sulphonated polyethylene (CSPE)

Options:
- Bare copper conductors
- Thermoplastic Low Smoke, Zero Halogen jacket
- Thermoset Low Smoke, Zero Halogen jacket
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Rating:
- UL.....90°C Dry

XLPO/HYP Instrumentation Cable Listings:
Insulated conductors are:
- UL Type RFH-2, FFH-2 in sizes #18 & #16 AWG
- ICEA S-66-524, 600V

Complete cables are:
- UL Type TC – 600V
- ICEA S-66-524 – 600V

Flame-Retardant XLPO Insulation, UL Class XL, Provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush, compression cuts, and heat distortion
- Excellent flame resistance
- Excellent low temperature cold bend characteristics

Flame-Retardant Hypalon® Jacket Provides:
- Excellent thermal and mechanical properties
- Good abrasion resistance
- Low moisture absorption characteristics
- "Heavy duty" rating per ICEA standards

CHTC Instrumentation Cables:
- Meet cold bend test at -45°C
- Are OSHA acceptable
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - ICEA T-29-520 (210,000 BTU/hr)
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 1277 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including flame-retardance, resistance to moisture, chemicals and physical durability.

May Be Installed:
- In free air, raceways, or direct burial
- In wet or dry locations
- At temperatures as low as -45°C
- In Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)
- For UL Type TC cables
- For industrial applications (K-2 color code)

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INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC 600V CHTC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-87209(1PR/18)	18 AWG 7/.0152	1	0.030	0.045	0.315	54
T-87209(1TRI/18)	**18 AWG 7/.0152**	**1 TRI**	**0.030**	**0.045**	**0.335**	**64**
T-87209(2PR/18)	18 AWG 7/.0152	2	0.030	0.045	0.515	114
T-87209(4PR/18)	18 AWG 7/.0152	4	0.030	0.060	0.640	199
T-87209(8PR/18)	18 AWG 7/.0152	8	0.030	0.080	0.830	340
T-87209(12PR/18)	18 AWG 7/.0152	12	0.030	0.080	1.045	528
T-87209(16PR/18)	18 AWG 7/.0152	16	0.030	0.080	1.155	663
T-87209(20PR/18)	18 AWG 7/.0152	20	0.030	0.080	1.280	800
T-87209(24PR/18)	18 AWG 7/.0152	24	0.030	0.080	1.385	941
T-87209(36PR/18)	18 AWG 7/.0152	36	0.030	0.110	1.630	1429
T-87209(50PR/18)	18 AWG 7/.0152	50	0.030	0.110	1.915	1901
T-87209(1PR/16)	16 AWG 7/.0192	1	0.030	0.045	0.340	68
T-87209(1TRI/16)	**16 AWG 7/.0192**	**1 TRI**	**0.030**	**0.045**	**0.355**	**130**
T-87209(2PR/16)	16 AWG 7/.0192	2	0.030	0.060	0.595	140
T-87209(4PR/16)	16 AWG 7/.0192	4	0.030	0.060	0.695	216
T-87209(8PR/16)	16 AWG 7/.0192	8	0.030	0.080	0.900	380
T-87209(12PR/16)	16 AWG 7/.0192	12	0.030	0.080	1.135	577
T-87209(16PR/16)	16 AWG 7/.0192	16	0.030	0.080	1.260	728
T-87209(20PR/16)	16 AWG 7/.0192	20	0.030	0.080	1.395	881
T-87209(24PR/16)	16 AWG 7/.0192	24	0.030	0.080	1.510	1039
T-87209(36PR/16)	16 AWG 7/.0192	36	0.030	0.110	1.845	1576
T-87209(50PR/16)	16 AWG 7/.0192	50	0.030	0.110	2.095	2105

Print: BICC CABLES CHTC XX/PR/TRI XXAWG SHIELDED XLP/HYP (UL) TYPE TC 90C DRY 75C WET SUN RES 600V sequential footage mark

Dimensions and weights are nominal, subject to industry tolerance.

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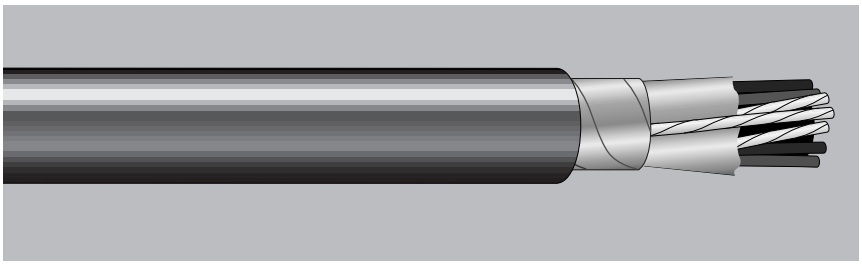
EFFECTIVE 1998-09-30

INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE PLTC/ITC UL TYPE TC 300V/600V XLPE/PVC



Description

Conductors:
Bare, annealed copper per ASTM B3; Class B stranding per ASTM B8

Sizes:
#18 AWG through #16 AWG

Insulation:
Color coded, flame-retardant cross-linked polyethylene (XLPE)

Conductor Components:
Insulated single conductors are twisted into pairs, triads or multiple conductor components.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary, and an overall binder tape.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant and sunlight resistant polyvinyl chloride (PVC)

Options:
- Tinned copper conductors
- Integrabon® moisture barrier system
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Rating:
- UL.....90°C Dry

Instrumentation Cable Listings:
- UL Type PLTC/ITC – 300 Volts
- UL Type TC – 600 Volts in conductor sizes #18 AWG – #16 AWG
- ICEA S-66-524 – 600 volts

Flame-Retardant XLPE Insulation, UL Class XL, Provides:
- Abrasion and chemical resistance
- Excellent electrical properties

Shield isolation between groups of pairs or triads is achieved by use of "foil-free" edge aluminum/polymer tape. For nonshielded pairs or triads, electromagnetic interference is minimized by staggering the length of lay of individual pairs/triads.

A nylon ripcord, applied longitudinally under the overall jacket, facilitates jacket removal.

Flame-Retardant PVC Jacket Provides:
- Abrasion and chemical resistance
- Sunlight and weathering resistance

CVTC Instrumentation Cables:
- Are OSHA acceptable
- Meet the following Flame Tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 1277 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where environmental factors require cable characteristics including flame retardance, resistance to chemicals and resistance to the harmful effects of sunlight and weather.

May Be Installed:
- In free air, raceways or direct burial
- In wet or dry locations
- At temperatures as low as -25°C
- In Class I Division 2 industrial hazardous locations per NEC Article 501-4(b). For UL type TC cables

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EFFECTIVE 1999-01-31

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V CVTC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
CVTC-S300BC-18-1TS	**18 AWG 7/.0152**	**1TRI**	**0.015**	**0.040**	**0.250**	**40**
CVTC-S300BC-18-2PS	18 AWG 7/.0152	2	0.015	0.040	0.365	56
CVTC-S300BC-18-4PS	18 AWG 7/.0152	4	0.015	0.050	0.440	98
CVTC-S300BC-18-8PS	18 AWG 7/.0152	8	0.015	0.050	0.550	175
CVTC-S300BC-18-12PS	18 AWG 7/.0152	12	0.015	0.060	0.675	250
CVTC-S300BC-18-16PS	18 AWG 7/.0152	16	0.015	0.060	0.750	317
CVTC-S300BC-18-20PS	18 AWG 7/.0152	20	0.015	0.060	0.785	379
CVTC-S300BC-18-24PS	18 AWG 7/.0152	24	0.015	0.060	0.905	446
CVTC-S300BC-18-36PS	18 AWG 7/.0152	36	0.015	0.070	1.020	660
CVTC-S300BC-18-50PS	18 AWG 7/.0152	50	0.015	0.070	1.170	884
CVTC-S300BC-16-1TS	**16 AWG 7/.0192**	**1TRI**	**0.015**	**0.040**	**0.280**	**53**
CVTC-S300BC-16-2PS	16 AWG 7/.0192	2	0.015	0.050	0.430	81
CVTC-S300BC-16-4PS	16 AWG 7/.0192	4	0.015	0.050	0.490	131
CVTC-S300BC-16-8PS	16 AWG 7/.0192	8	0.015	0.060	0.650	237
CVTC-S300BC-16-12PS	16 AWG 7/.0192	12	0.015	0.060	0.755	342
CVTC-S300BC-16-16PS	16 AWG 7/.0192	16	0.015	0.060	0.845	439
CVTC-S300BC-16-20PS	16 AWG 7/.0192	20	0.015	0.070	0.880	545
CVTC-S300BC-16-24PS	16 AWG 7/.0192	24	0.015	0.070	1.020	643
CVTC-S300BC-16-36PS	16 AWG 7/.0192	36	0.015	0.070	1.155	927
CVTC-S300BC-16-50PS	16 AWG 7/.0192	50	0.015	0.080	1.345	1276

Print: BICC CABLES CVTC XX/PR/TRI XX AWG XLPE/PVC SHIELDED (UL) TYPE PLTC 300V 90C SUN RES plus sequential footage mark

INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V CVTC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
CVTC-S300BC-18-1STS	**18 AWG 7/.0152**	**1TRI**	**0.015**	**0.040**	**0.250**	**40**
CVTC-S300BC-18-2SPS	18 AWG 7/.0152	2	0.015	0.050	0.410	73
CVTC-S300BC-18-4SPS	18 AWG 7/.0152	4	0.015	0.050	0.475	117
CVTC-S300BC-18-8SPS	18 AWG 7/.0152	8	0.015	0.050	0.635	215
CVTC-S300BC-18-12SPS	18 AWG 7/.0152	12	0.015	0.060	0.765	308
CVTC-S300BC-18-16SPS	18 AWG 7/.0152	16	0.015	0.060	0.845	392
CVTC-S300BC-18-20SPS	18 AWG 7/.0152	20	0.015	0.070	0.955	494
CVTC-S300BC-18-24SPS	18 AWG 7/.0152	24	0.015	0.070	1.030	583
CVTC-S300BC-18-36SPS	18 AWG 7/.0152	36	0.015	0.070	1.210	830
CVTC-S300BC-18-50SPS	18 AWG 7/.0152	50	0.015	0.080	1.400	1145
CVTC-S300BC-16-1STS	**16 AWG 7/.0152**	**1TRI**	**0.015**	**0.040**	**0.280**	**53**
CVTC-S300BC-16-2SPS	16 AWG 7/.0192	2	0.015	0.050	0.455	96
CVTC-S300BC-16-4SPS	16 AWG 7/.0192	4	0.015	0.050	0.530	160
CVTC-S300BC-16-8SPS	16 AWG 7/.0192	8	0.015	0.060	0.710	293
CVTC-S300BC-16-12SPS	16 AWG 7/.0192	12	0.015	0.060	0.855	425
CVTC-S300BC-16-16SPS	16 AWG 7/.0192	16	0.015	0.070	0.970	563
CVTC-S300BC-16-20SPS	16 AWG 7/.0192	20	0.015	0.070	1.070	692
CVTC-S300BC-16-24SPS	16 AWG 7/.0192	24	0.015	0.070	1.160	814
CVTC-S300BC-16-36SPS	16 AWG 7/.0192	36	0.015	0.080	1.380	1196
CVTC-S300BC-16-50SPS	16 AWG 7/.0192	50	0.015	0.080	1.580	1617

Print: BICC CABLES CVTC XX /PR/TRI XX AWG XLPE/PVC SHIELDED (UL) TYPE PLTC 300V 90C SUN RES plus sequential footage mark

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EFFECTIVE 1998-09-30

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE PLTC/ITC 300V CVTC

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
CVTC-S300BC-18-1STS	18 AWG 7/.0152	1TRI	0.015	0.040	0.250	40
CVTC-S300BC-18-2STS	18 AWG 7/.0152	2TRI	0.015	0.050	0.450	90
CVTC-S300BC-18-4STS	18 AWG 7/.0152	4TRI	0.015	0.050	0.520	150
CVTC-S300BC-18-8STS	18 AWG 7/.0152	8TRI	0.015	0.060	0.695	275
CVTC-S300BC-18-12STS	18 AWG 7/.0152	12TRI	0.015	0.060	0.840	396
CVTC-S300BC-18-16STS	18 AWG 7/.0152	16TRI	0.015	0.070	0.950	525
CVTC-S300BC-18-20STS	18 AWG 7/.0152	20TRI	0.015	0.070	1.050	644
CVTC-S300BC-18-24STS	18 AWG 7/.0152	24TRI	0.015	0.070	1.135	757
CVTC-S300BC-18-36STS	18 AWG 7/.0152	36TRI	0.015	0.080	1.390	1111
CVTC-S300BC-16-1STS	16 AWG 7/.0192	1TRI	0.015	0.040	0.280	53
CVTC-S300BC-16-2STS	16 AWG 7/.0192	2TRI	0.015	0.050	0.500	132
CVTC-S300BC-16-4STS	16 AWG 7/.0192	4TRI	0.015	0.050	0.580	226
CVTC-S300BC-16-8STS	16 AWG 7/.0192	8TRI	0.015	0.060	0.780	429
CVTC-S300BC-16-12STS	16 AWG 7/.0192	12TRI	0.015	0.070	0.960	630
CVTC-S300BC-16-16STS	16 AWG 7/.0192	16TRI	0.015	0.070	1.070	815
CVTC-S300BC-16-20STS	16 AWG 7/.0192	20TRI	0.015	0.070	1.185	998
CVTC-S300BC-16-24STS	16 AWG 7/.0192	24TRI	0.015	0.080	1.300	1203
CVTC-S300BC-16-36STS	16 AWG 7/.0192	36TRI	0.015	0.080	1.525	1735

Print: BICC CABLES CVTC XX/TRI XX AWG XLPE/PVC SHIELDED (UL) TYPE PLTC 300V 90C SUN RES plus sequential footage mark

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC 600V CVTC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
CVTC-S600BC-18-1TS	**18 AWG 7/.0152**	**1TRI**	**0.030**	**0.045**	**0.340**	**58**
CVTC-S600BC-18-2PS	18 AWG 7/.0152	2	0.030	0.045	0.480	79
CVTC-S600BC-18-4PS	18 AWG 7/.0152	4	0.030	0.045	0.560	127
CVTC-S600BC-18-8PS	18 AWG 7/.0152	8	0.030	0.060	0.750	235
CVTC-S600BC-18-12PS	18 AWG 7/.0152	12	0.030	0.080	0.915	331
CVTC-S600BC-18-16PS	18 AWG 7/.0152	16	0.030	0.080	1.025	461
CVTC-S600BC-18-20PS	18 AWG 7/.0152	20	0.030	0.080	1.070	545
CVTC-S600BC-18-24PS	18 AWG 7/.0152	24	0.030	0.080	1.210	644
CVTC-S600BC-18-36PS	18 AWG 7/.0152	36	0.030	0.080	1.370	906
CVTC-S600BC-18-50PS	18 AWG 7/.0152	50	0.030	0.080	1.575	1208
CVTC-S600BC-16-1TS	**16 AWG 7/.0152**	**1TRI**	**0.030**	**0.045**	**0.360**	**72**
CVTC-S600BC-16-2PS	16 AWG 7/.0192	2	0.030	0.045	0.525	98
CVTC-S600BC-16-4PS	16 AWG 7/.0192	4	0.030	0.060	0.650	179
CVTC-S600BC-16-8PS	16 AWG 7/.0192	8	0.030	0.060	0.855	332
CVTC-S600BC-16-12PS	16 AWG 7/.0192	12	0.030	0.080	1.000	470
CVTC-S600BC-16-16PS	16 AWG 7/.0192	16	0.030	0.080	1.120	601
CVTC-S600BC-16-20PS	16 AWG 7/.0192	20	0.030	0.080	1.170	715
CVTC-S600BC-16-24PS	16 AWG 7/.0192	24	0.030	0.080	1.325	842
CVTC-S600BC-16-36PS	16 AWG 7/.0192	36	0.030	0.080	1.505	1197
CVTC-S600BC-16-50PS	16 AWG 7/.0192	50	0.030	0.110	1.790	1606

Print: BICC CABLES CVTC XX/PR/TRI XX AWG XLPE/PVC (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 90C WET OR DRY 600V plus sequential footage mark

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EFFECTIVE 1998-09-30

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE TC 600V CVTC

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
CVTC-S600BC-18-2SPS	18 AWG 7/.0152	2	0.030	0.045	0.515	95
CVTC-S600BC-18-4SPS	18 AWG 7/.0152	4	0.030	0.060	0.640	170
CVTC-S600BC-18-8SPS	18 AWG 7/.0152	8	0.030	0.060	0.830	312
CVTC-S600BC-18-12SPS	18 AWG 7/.0152	12	0.030	0.080	1.045	454
CVTC-S600BC-18-16SPS	18 AWG 7/.0152	16	0.030	0.080	1.155	570
CVTC-S600BC-18-20SPS	18 AWG 7/.0152	20	0.030	0.080	1.280	688
CVTC-S600BC-18-24SPS	18 AWG 7/.0152	24	0.030	0.080	1.385	802
CVTC-S600BC-18-36SPS	18 AWG 7/.0152	36	0.030	0.080	1.630	1133
CVTC-S600BC-18-50SPS	18 AWG 7/.0152	50	0.030	0.110	1.915	1632
CVTC-S600BC-16-2SPS	16 AWG 7/.0192	2	0.030	0.060	0.595	135
CVTC-S600BC-16-4SPS	16 AWG 7/.0192	4	0.030	0.060	0.695	214
CVTC-S600BC-16-8SPS	16 AWG 7/.0192	8	0.030	0.060	0.900	399
CVTC-S600BC-16-12SPS	16 AWG 7/.0192	12	0.030	0.080	1.135	584
CVTC-S600BC-16-16SPS	16 AWG 7/.0192	16	0.030	0.080	1.260	740
CVTC-S600BC-16-20SPS	16 AWG 7/.0192	20	0.030	0.080	1.395	897
CVTC-S600BC-16-24SPS	16 AWG 7/.0192	24	0.030	0.080	1.510	1051
CVTC-S600BC-16-36SPS	16 AWG 7/.0192	36	0.030	0.110	1.845	1604
CVTC-S600BC-16-50SPS	16 AWG 7/.0192	50	0.030	0.110	2.095	2158

Print: BICC CABLES CVTC XX/PR XX AWG XLPE/PVC (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 90C WET OR DRY 600V plus sequential footage mark

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE TC 600V CVTC

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
CVTC-S600BC-18-2STS	18 AWG 7/.0152	2TRI	0.030	0.060	0.600	136
CVTC-S600BC-18-4STS	18 AWG 7/.0152	4TRI	0.030	0.060	0.705	216
CVTC-S600BC-18-8STS	18 AWG 7/.0152	8TRI	0.030	0.060	0.955	402
CVTC-S600BC-18-12STS	18 AWG 7/.0152	12TRI	0.030	0.080	1.150	588
CVTC-S600BC-18-16STS	18 AWG 7/.0152	16TRI	0.030	0.080	1.350	745
CVTC-S600BC-18-20STS	18 AWG 7/.0152	20TRI	0.030	0.080	1.420	904
CVTC-S600BC-18-24STS	18 AWG 7/.0152	24TRI	0.030	0.080	1.535	1059
CVTC-S600BC-18-36STS	18 AWG 7/.0152	36TRI	0.030	0.110	1.875	1616
CVTC-S600BC-16-2STS	16 AWG 7/.0192	2TRI	0.030	0.060	0.660	169
CVTC-S600BC-16-4STS	16 AWG 7/.0192	4TRI	0.030	0.060	0.765	277
CVTC-S600BC-16-8STS	16 AWG 7/.0192	8TRI	0.030	0.060	0.995	521
CVTC-S600BC-16-12STS	16 AWG 7/.0192	12TRI	0.030	0.080	1.255	765
CVTC-S600BC-16-16STS	16 AWG 7/.0192	16TRI	0.030	0.080	1.395	977
CVTC-S600BC-16-20STS	16 AWG 7/.0192	20TRI	0.030	0.080	1.550	1191
CVTC-S600BC-16-24STS	16 AWG 7/.0192	24TRI	0.030	0.110	1.680	1401
CVTC-S600BC-16-36STS	16 AWG 7/.0192	36TRI	0.030	0.110	2.045	2131

Print: BICC CABLES CVTC XX/TRI XX AWG XLPE/PVC (UL) TYPE TC XHHW-2 CDRS DIR BUR SUN RES 90C WET OR DRY 600V plus sequential footage mark

Dimensions and weights are nominal, subject to industry tolerance.

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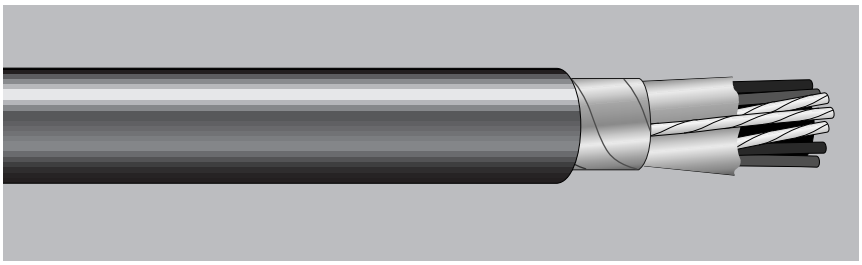
EFFECTIVE 1998-09-30

INSTRUMENTATION CABLE

SHIELDED PAIRS SHIELDED TRIADS

UL TYPE TC 600V PVC/NYLON/PVC



Description

Conductors:
Bare, annealed copper per ASTM B3; Class B stranding per ASTM B8

Sizes:
#18 AWG through #16 AWG

Insulation:
Flame-retardant colored polyvinyl chloride (PVC)

Conductor Jacket:
Color coded, extruded clear polyamide (nylon)

Conductor Components:
Insulated single conductors are twisted into pairs.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with compatible fillers and a binder tape applied helically over the cable core.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant and sunlight resistant polyvinyl chloride (PVC)

Options:
- Tinned copper conductors
- Flexible stranded conductors
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Rating:
- UL.....90°C

VNTC Instrumentation Cable Listings:
- UL Type TC
- NEC Type TFN or TFFN conductors for #18 and #16 AWG

Flame-retardant PVC insulation is a thermoplastic material.

Nylon conductor jacket is heat and light stabilized and provides low moisture absorption characteristics.

VNTC Instrumentation Cables:
- Provide outstanding sunlight, cold bend and cold impact resistance
- Are OSHA acceptable
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL 1277 (70,000 BTU/hr)
- Offer the smallest cable O.D.'s available for suitable applications
- Provide excellent oil and chemical resistance
- Provide a long service life

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where environmental factors require cable characteristics including a degree of flame-retardance and resistance to moisture and chemicals.

May Be Installed:
- In raceways or direct burial
- In wet or dry locations
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)

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EFFECTIVE 1999-01-31

OVERALL SHIELDED PAIRS – UL TYPE TC 600V VNTC

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-87021(1PR/18)	18 AWG 7/.0152	1	0.020	0.045	0.280	41
T-87021(2PR/18)	18 AWG 7/.0152	2	0.020	0.045	0.440	72
T-87021(3PR/18)	18 AWG 7/.0152	3	0.020	0.045	0.465	90
T-87021(4PR/18)	18 AWG 7/.0152	4	0.020	0.045	0.505	110
T-87021(5PR/18)	18 AWG 7/.0152	5	0.020	0.060	0.570	144
T-87021(7PR/18)	18 AWG 7/.0152	7	0.020	0.060	0.585	177
T-87021(12PR/18)	18 AWG 7/.0152	12	0.020	0.060	0.770	277
T-87021(16PR/18)	18 AWG 7/.0152	16	0.020	0.080	0.905	387
T-87021(20PR/18)	18 AWG 7/.0152	20	0.020	0.080	0.940	455
T-87021(24PR/18)	18 AWG 7/.0152	24	0.020	0.080	1.055	532
T-87021(36PR/18)	18 AWG 7/.0152	36	0.020	0.080	1.190	739
T-87021(50PR/18)	18 AWG 7/.0152	50	0.020	0.080	1.360	999
T-87021(1PR/16)	16 AWG 7/.0192	1	0.020	0.045	0.300	52
T-87021(2PR/16)	16 AWG 7/.0192	2	0.020	0.045	0.470	93
T-87021(3PR/16)	16 AWG 7/.0192	3	0.020	0.045	0.505	117
T-87021(4PR/16)	16 AWG 7/.0192	4	0.020	0.060	0.575	160
T-87021(5PR/16)	16 AWG 7/.0192	5	0.020	0.060	0.610	190
T-87021(7PR/16)	16 AWG 7/.0192	7	0.020	0.060	0.630	239
T-87021(12PR/16)	16 AWG 7/.0192	12	0.020	0.060	0.825	370
T-87021(16PR/16)	16 AWG 7/.0192	16	0.020	0.080	0.970	513
T-87021(20PR/16)	16 AWG 7/.0192	20	0.020	0.080	1.010	628
T-87021(24PR/16)	16 AWG 7/.0192	24	0.020	0.080	1.135	740
T-87021(36PR/16)	16 AWG 7/.0192	36	0.020	0.080	1.285	1040
T-87021(50PR/16)	16 AWG 7/.0192	50	0.020	0.080	1.470	1396
Print: BICC CABLES SHIELDED VN-TC XX/PR XX AWG (UL) TYPE TC TFN DIR BUR SUN RES 600V						

INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC 600V VNTC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-87011(1TRI/18)	**18 AWG 7/.0152**	**1 TRI**	**0.020**	**0.045**	**0.290**	**48**
T-87011(2PR/18)	18 AWG 7/.0152	2	0.020	0.045	0.445	84
T-87011(3PR/18)	18 AWG 7/.0152	3	0.020	0.045	0.480	106
T-87011(4PR/18)	18 AWG 7/.0152	4	0.020	0.045	0.555	145
T-87011(5PR/18)	18 AWG 7/.0152	5	0.020	0.060	0.580	169
T-87011(7PR/18)	18 AWG 7/.0152	7	0.020	0.060	0.650	219
T-87011(12PR/18)	18 AWG 7/.0152	12	0.020	0.060	0.845	350
T-87011(16PR/18)	18 AWG 7/.0152	16	0.020	0.080	0.960	475
T-87011(20PR/18)	18 AWG 7/.0152	20	0.020	0.080	1.050	575
T-87011(24PR/18)	18 AWG 7/.0152	24	0.020	0.080	1.130	670
T-87011(36PR/18)	18 AWG 7/.0152	36	0.020	0.080	1.345	957
T-87011(50PR/18)	18 AWG 7/.0152	50	0.020	0.080	1.550	1278
T-87011(1TRI/16)	**16 AWG 7/.0192**	**1 TRI**	**0.020**	**0.045**	**0.315**	**61**
T-87011(2PR/16)	16 AWG 7/.0192	2	0.020	0.045	0.495	105
T-87011(3PR/16)	16 AWG 7/.0192	3	0.020	0.045	0.520	137
T-87011(4PR/16)	16 AWG 7/.0192	4	0.020	0.045	0.600	188
T-87011(5PR/16)	16 AWG 7/.0192	5	0.020	0.060	0.655	224
T-87011(7PR/16)	16 AWG 7/.0192	7	0.020	0.060	0.710	290
T-87011(12PR/16)	16 AWG 7/.0192	12	0.020	0.060	0.940	498
T-87011(16PR/16)	16 AWG 7/.0192	16	0.020	0.080	1.055	635
T-87011(20PR/16)	16 AWG 7/.0192	20	0.020	0.080	1.155	768
T-87011(24PR/16)	16 AWG 7/.0192	24	0.020	0.080	1.260	903
T-87011(36PR/16)	16 AWG 7/.0192	36	0.020	0.080	1.480	1290
T-87011(50PR/16)	16 AWG 7/.0192	50	0.020	0.080	1.775	1842
Print: BICC CABLES SHIELDED VN-TC XX/PR/TRI XX AWG (UL) TYPE TC TFN DIR BUR SUN RES 600V						

Dimensions and weights are nominal, subject to industry tolerance.

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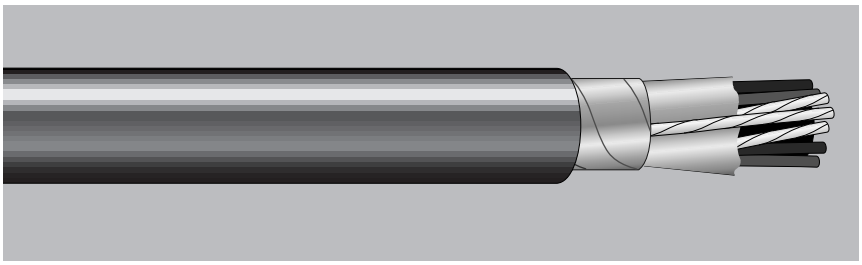
EFFECTIVE 1998-09-30

INSTRUMENTATION CABLE

SHIELDED PAIRS/ SHIELDED TRIADS

UL TYPE PLTC/ITC 300V PVC/PVC



Description

Conductors:
Bare, annealed copper per ASTM B3; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant polyvinyl chloride (PVC)

Conductor Components:
Insulated single conductors are twisted into pairs.

Color Code:
Per ICEA Method 1; Pairs – black and white. Triads – black, white and red. One conductor in each pair or triad is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with an insulated (orange) communication wire, compatible fillers as necessary, and a binder tape applied helically over the cable core.

Shielding Systems:
For Overall Shielded Pairs or Triads–
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

For Individual and Overall Shielded Pairs or Triads–
Component Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components
Overall Shield:
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Overall Jacket:
Flame-retardant and sunlight resistant polyvinyl chloride (PVC)

Options:
- Flame-retardant chlorinated polyethylene (CPE) jacket
- Thermoplastic Low Smoke, Zero Halogen jacket
- Thermoset Low Smoke, Zero Halogen jacket
- Duralox® aluminum interlocked armor

Features and Benefits

Temperature Rating:
- UL.....105°C

Instrumentation Cable Listing:
- UL Type PLTC/ITC – 300V

Flame-Retardant PVC Insulation Provides:
- 105°C rating
- Good electrical properties

An insulated communication wire offers a means to perform circuit checks during installation and maintenance.

A nylon ripcord, applied longitudinally under the overall jacket, facilitates jacket removal.

Flame-Retardant PVC Jacket Provides:
- Oil and sunlight resistance
- Flame-retardance
- Good mechanical properties

PVIC Instrumentation Cables:
- Meet the following flame tests:
  - IEEE 1202 (70,000 BTU/hr)/ CSA FT4
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)
- Multi-pair unit number is printed alpha-numerically on one conductor of each unit

Meets EPA 40 CFR, Part 261 for leachable lead content per TCLP method

Applications

For applications where environmental factors require cable characteristics including flame-retardance, resistance to chemicals and exposure to sunlight. Typical applications include audio, intercom, control, energy management and alarm circuits.

May Be Installed:
- Above grade in ducts or conduit
- In accordance with UL Subject 13 as Power Limited Circuit Cable
- In Class 3 circuits in accordance with NEC Article 725
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)
- Per NEC Article 727 for Type PLTC/ITC

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EFFECTIVE 1999-01-31

OVERALL SHIELDED PAIRS/TRIADS – UL TYPE PLTC/ITC 300V PVIC

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86020(1PR/20)	20 AWG 7/.0121	1	0.012	0.035	0.202	22
T-86020(1TRI/20)	**20 AWG 7/.0121**	**1 TRI**	**0.012**	**0.035**	**0.213**	**25**
T-86020(2PR/20)	20 AWG 7/.0121	2	0.012	0.040	0.345	55
T-86020(4PR/20)	20 AWG 7/.0121	4	0.012	0.040	0.355	76
T-86020(8PR/20)	20 AWG 7/.0121	8	0.012	0.050	0.465	136
T-86020(12PR/20)	20 AWG 7/.0121	12	0.012	0.050	0.545	195
T-86020(16PR/20)	20 AWG 7/.0121	16	0.012	0.050	0.605	248
T-86020(20PR/20)	20 AWG 7/.0121	20	0.012	0.060	0.650	309
T-86020(24PR/20)	20 AWG 7/.0121	24	0.012	0.060	0.740	376
T-86020(36PR/20)	20 AWG 7/.0121	36	0.012	0.060	0.850	530
T-86020(50PR/20)	20 AWG 7/.0121	50	0.012	0.070	0.970	713
T-86020(1PR/18)	18 AWG 7/.0152	1	0.015	0.035	0.235	31
T-86020(1TRI/18)	**18 AWG 7/.0152**	**1 TRI**	**0.015**	**0.035**	**0.247**	**40**
T-86020(2PR/18)	18 AWG 7/.0152	2	0.015	0.050	0.430	80
T-86020(4PR/18)	18 AWG 7/.0152	4	0.015	0.050	0.440	114
T-86020(8PR/18)	18 AWG 7/.0152	8	0.015	0.050	0.560	204
T-86020(12PR/18)	18 AWG 7/.0152	12	0.015	0.060	0.670	293
T-86020(16PR/18)	18 AWG 7/.0152	16	0.015	0.060	0.750	374
T-86020(20PR/18)	18 AWG 7/.0152	20	0.015	0.060	0.780	449
T-86020(24PR/18)	18 AWG 7/.0152	24	0.015	0.070	0.915	564
T-86020(36PR/18)	18 AWG 7/.0152	36	0.015	0.070	1.030	787
T-86020(50PR/18)	18 AWG 7/.0152	50	0.015	0.070	1.180	1059
T-86020(1PR/16)	16 AWG 7/.0192	1	0.015	0.035	0.260	46
T-86020(1TRI/16)	**16 AWG 7/.0192**	**1 TRI**	**0.015**	**0.040**	**0.290**	**75**
T-86020(2PR/16)	16 AWG 7/.0192	2	0.015	0.050	0.475	105
T-86020(4PR/16)	16 AWG 7/.0192	4	0.015	0.050	0.490	154
T-86020(8PR/16)	16 AWG 7/.0192	8	0.015	0.060	0.650	282
T-86020(12PR/16)	16 AWG 7/.0192	12	0.015	0.060	0.755	408
T-86020(16PR/16)	16 AWG 7/.0192	16	0.015	0.060	0.845	526
T-86020(20PR/16)	16 AWG 7/.0192	20	0.015	0.070	0.905	655
T-86020(24PR/16)	16 AWG 7/.0192	24	0.015	0.070	1.030	803
T-86020(36PR/16)	16 AWG 7/.0192	36	0.015	0.070	1.165	1122
T-86020(50PR/16)	16 AWG 7/.0192	50	0.015	0.080	1.355	1544

Print: BICC CABLES PVIC XX/PR/TRI XXAWG SHIELDED (UL) TYPE ITC OR PLTC 300V 105C SUN RES

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EFFECTIVE 1998-09-30

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE PLTC/ITC 300V PVIC

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86010(2PR/20)	20 AWG 7/.0121	2	0.012	0.040	0.335	55
T-86010(4PR/20)	20 AWG 7/.0121	4	0.012	0.050	0.405	88
T-86010(8PR/20)	20 AWG 7/.0121	8	0.012	0.050	0.515	152
T-86010(12PR/20)	20 AWG 7/.0121	12	0.012	0.060	0.640	223
T-86010(16PR/20)	20 AWG 7/.0121	16	0.012	0.060	0.705	280
T-86010(20PR/20)	20 AWG 7/.0121	20	0.012	0.060	0.780	339
T-86010(24PR/20)	20 AWG 7/.0121	24	0.012	0.060	0.845	397
T-86010(36PR/20)	20 AWG 7/.0121	36	0.012	0.070	1.015	586
T-86010(50PR/20)	20 AWG 7/.0121	50	0.012	0.070	1.190	786
T-86010(2PR/18)	18 AWG 7/.0152	2	0.015	0.050	0.410	78
T-86010(4PR/18)	18 AWG 7/.0152	4	0.015	0.050	0.475	121
T-86010(8PR/18)	18 AWG 7/.0152	8	0.015	0.050	0.635	215
T-86010(12PR/18)	18 AWG 7/.0152	12	0.015	0.060	0.760	315
T-86010(16PR/18)	18 AWG 7/.0152	16	0.015	0.060	0.845	401
T-86010(20PR/18)	18 AWG 7/.0152	20	0.015	0.070	0.955	505
T-86010(24PR/18)	18 AWG 7/.0152	24	0.015	0.070	1.040	596
T-86010(36PR/18)	18 AWG 7/.0152	36	0.015	0.070	1.215	846
T-86010(50PR/18)	18 AWG 7/.0152	50	0.015	0.080	1.450	1165
T-86010(2PR/16)	16 AWG 7/.0192	2	0.015	0.050	0.455	100
T-86010(4PR/16)	16 AWG 7/.0192	4	0.015	0.050	0.530	165
T-86010(8PR/16)	16 AWG 7/.0192	8	0.015	0.060	0.710	230
T-86010(12PR/16)	16 AWG 7/.0192	12	0.015	0.060	0.855	435
T-86010(16PR/16)	16 AWG 7/.0192	16	0.015	0.070	0.970	575
T-86010(20PR/16)	16 AWG 7/.0192	20	0.015	0.070	1.080	705
T-86010(24PR/16)	16 AWG 7/.0192	24	0.015	0.070	1.165	828
T-86010(36PR/16)	16 AWG 7/.0192	36	0.015	0.080	1.390	1215
T-86010(50PR/16)	16 AWG 7/.0192	50	0.015	0.090	1.655	1670
Print: BICC CABLES PVIC XX/PR XXAWG SHIELDED (UL) TYPE ITC OR PLTC 300V 105C SUN RES						

INDIVIDUAL AND OVERALL SHIELDED TRIADS – UL TYPE PLTC/ITC 300V PVIC

BICC Part Number	AWG and Stranding	Number of Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
T-86015(2TRI/20)	20 AWG 7/.0121	2TRI	0.012	0.040	0.370	66
T-86015(4TRI/20)	20 AWG 7/.0121	4TRI	0.012	0.050	0.440	111
T-86015(8TRI/20)	20 AWG 7/.0121	8TRI	0.012	0.050	0.565	197
T-86015(12TRI/20)	20 AWG 7/.0121	12TRI	0.012	0.060	0.705	287
T-86015(16TRI/20)	20 AWG 7/.0121	16TRI	0.012	0.060	0.780	365
T-86015(20TRI/20)	20 AWG 7/.0121	20TRI	0.012	0.060	0.860	440
T-86015(24TRI/20)	20 AWG 7/.0121	24TRI	0.012	0.070	0.955	541
T-86015(36TRI/20)	20 AWG 7/.0121	36TRI	0.012	0.070	1.115	767
T-86015(2TRI/18)	18 AWG 7/.0152	2TRI	0.015	0.050	0.455	98
T-86015(4TRI/18)	18 AWG 7/.0152	4TRI	0.015	0.050	0.545	163
T-86015(8TRI/18)	18 AWG 7/.0152	8TRI	0.015	0.060	0.700	295
T-86015(12TRI/18)	18 AWG 7/.0152	12TRI	0.015	0.060	0.840	412
T-86015(16TRI/18)	18 AWG 7/.0152	16TRI	0.015	0.070	0.960	550
T-86015(20TRI/18)	18 AWG 7/.0152	20TRI	0.015	0.070	1.060	668
T-86015(24TRI/18)	18 AWG 7/.0152	24TRI	0.015	0.070	1.145	785
T-86015(36TRI/18)	18 AWG 7/.0152	36TRI	0.015	0.080	1.365	1151
T-86015(2TRI/16)	16 AWG 7/.0192	2TRI	0.015	0.050	0.500	126
T-86015(4TRI/16)	16 AWG 7/.0192	4TRI	0.015	0.050	0.580	211
T-86015(8TRI/16)	16 AWG 7/.0192	8TRI	0.015	0.060	0.785	407
T-86015(12TRI/16)	16 AWG 7/.0192	12TRI	0.015	0.070	0.970	597
T-86015(16TRI/16)	16 AWG 7/.0192	16TRI	0.015	0.070	1.075	765
T-86015(20TRI/16)	16 AWG 7/.0192	20TRI	0.015	0.070	1.195	933
T-86015(24TRI/16)	16 AWG 7/.0192	24TRI	0.015	0.080	1.310	1125
T-86015(36TRI/16)	16 AWG 7/.0192	36TRI	0.015	0.080	1.540	1620
Print: BICC CABLES PVIC XX/TRI XXAWG SHIELDED (UL) TYPE ITC OR PLTC 300V 105C SUN RES						

Dimensions and weights are nominal, subject to industry tolerance.

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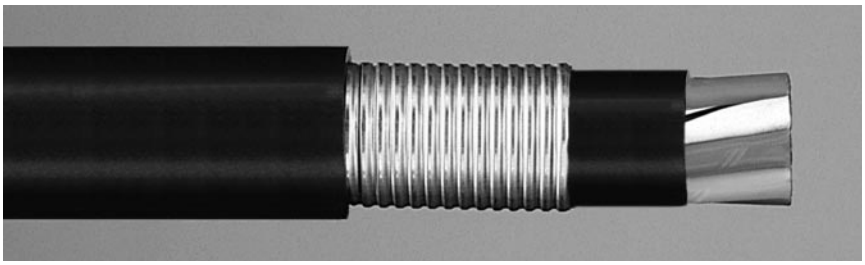
BICCCables

SPECIFICATION #PZIC-I-0001

INSTRUMENTATION CABLE

SHIELDED PAIRS UL TYPE PLTC/ITC 300V

PVC/PVC/CPE



Description

Conductors:
Bare, annealed copper per ASTM B3; Class B stranding per ASTM B8

Sizes:
#20 AWG through #16 AWG

Insulation:
Color coded, flame-retardant polyvinyl chloride (PVC)

Conductor Components:
Insulated single conductors are twisted into pairs, triads or multiple conductor components.

Color Code:
Per ICEA Method 1; Pairs – black and white. Conductor in each pair is printed alpha-numerically for easy identification.

Cable Core:
Conductor components are cabled with an insulated (orange) communication wire, compatible fillers as necessary, and a binder tape applied helically over the cable core.

Component Shield (Optional):
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs

Overall Shield (Optional):
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core

Inner Jacket:
Flame-retardant polyvinyl chloride (PVC)

Integrabon® Moisture Barrier:
Aluminum tape coated with an adhesive copolymer longitudinally applied and hermetically bonded at the overlap and to the overall jacket.

Overall Jacket:
Flame-retardant thermoplastic chlorinated polyethylene (CPE)

Options:
- Tinned copper conductors
- In multi-pair/triads, unit number is printed alphanumerically on one conductor of each unit
- 600 Volt, UL Listed Type TC cable

Features and Benefits

Temperature Rating:
- Normal .....105°C

Instrumentation Cable Listing:
- UL Type PLTC/ITC

Flame-Retardant PVC Insulation Provides:
- 105°C rating
- Good electrical properties

Shield isolation between pairs or triads is achieved by means of "J" fold along one edge of the aluminum/polymer shield tape. For nonshielded pairs or triads, electromagnetic interference is minimized by staggering the length of lay of individual pairs/triads.

Nylon ripcords, applied longitudinally under the inner jacket and under the Integrabon®, facilitate jacket removal.

Integrabon® Moisture Barrier Provides:
- Improved mechanical protection
- Excellent moisture barrier
- Excellent electrical characteristics
- Equivalent D.C. resistance of a .005" copper tape
- Lower inductance than wrapped tapes

Flame-Retardant CPE Overall Jacket Provides:
- Excellent flame retardance - burns to an ash; does not drip when burned
- Low coefficient of friction - easy pulling
- Excellent thermal and mechanical characteristics
- Low heat deformation
- Excellent resistance to compression cutting or crush

PZIC Instrumentation Cables:
- Are virtually impervious to moisture
- Meet the following Flame Tests:
  - IEEE 383 (70,000 BTU/hr)
  - UL Subject 13 (70,000 BTU/hr)

Applications

For applications where cables will be exposed to excessive moisture and chemicals during normal operation and where the potential for exposure to fire makes flame retardance a highly desirable cable characteristic. Typical applications include audio, intercom, control, energy management and alarm circuits.

May Be Installed:
- In above grade in ducts or conduits
- In wet locations, can be installed under water
- In accordance with UL Subject 13 as Power Limited Circuit Cable
- In Class 3 circuits in accordance with NEC Article 725
- In Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)

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OVERALL SHIELDED PAIRS – UL TYPE PLTC 300V PZIC

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
PZIC-S300BC-20-24PS	20 AWG 7/.0121	24	0.012	0.060	0.905	500
PZIC-S300BC-20-36PS	20 AWG 7/.0121	36	0.012	0.060	0.995	652
PZIC-S300BC-16-1PS	16 AWG 7/.0192	1	0.015	0.035	0.375	81
Print: BICC CABLES PZIC XX/PR XXAWG SHIELDED (UL) TYPE ITC OR PLTC 300V 105C SUN RES						

INDIVIDUAL AND OVERALL SHIELDED PAIRS – UL TYPE PLTC 300V PZIC

BICC Part Number	AWG and Stranding	Number of Pairs	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
PZIC-S300BC-20-8SPS	20 AWG 7/.0121	8	0.012	0.050	0.665	245
PZIC-S300BC-20-12SPS	20 AWG 7/.0121	12	0.012	0.060	0.810	328
PZIC-S300BC-20-24SPS	20 AWG 7/.0121	24	0.012	0.060	1.015	530
Print: BICC CABLES PZIC XX/PR XXAWG SHIELDED (UL) TYPE ITC OR PLTC 300V 105C SUN RES						

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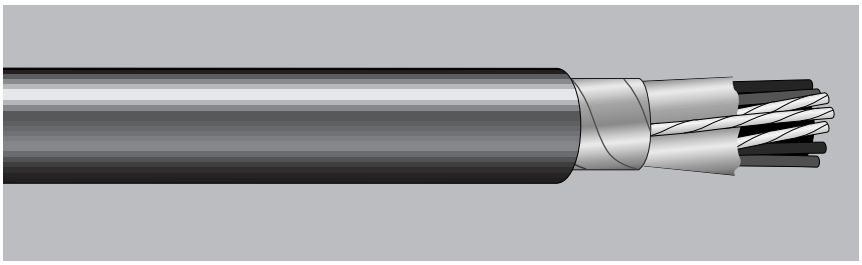
INSTRUMENTATION CABLE

UL TYPE TC (#18 - #12)/ICEA S-73-532 (#20)

600V EPR/ARCTIC-PVC



Description

Conductors:
Tinned annealed copper per ASTM B33; Class B stranding per ASTM B8

Sizes:
#28 AWG through #16 AWG

Insulation:
Color coded, flame-retardant ethylene propylene rubber (EPR)

Conductor Components:
Insulated single conductors are twisted into pairs, triads or multiple conductor components.

Color Code:
Per ICEA Method 1:
- Pairs – Black & white
- Triads – Black, white & red
- Multiple conductor components – as required

Cable Core:
Conductor components are cabled with non-hygroscopic, fillers as necessary and an overall binder tape.

Component Shield (Optional):
Aluminum/polymer tape with tinned copper drain wire applied helically over pairs, triads or multiple conductor components. Isolation provided by means of additional polymer tape.

Overall Shield (Optional):
Aluminum/polymer tape with tinned copper drain wire applied helically over cable core.

Overall Jacket:
Flame-retardant arctic-grade flexible PVC

Options:
- Bare copper conductors
- K-2 color code (does not include white or green)
- Class K strand
- Duralox® aluminum interlocked armor
- 300 volt, UL Listed PLTC/ITC cable

Features and Benefits

Temperature Ratings:
- UL listed……90°C Wet or Dry
- ICEA……..90°C Wet or Dry

Arctic-Flex Instrumentation Cable Listings:
- UL Type TC – 600 Volts in conductor sizes #18 AWG - #12 AWG
- ICEA S-73-532 – 20 AWG, 600 Volts

Flame-retardant EPR Insulation, UL Class XL and Type II in accordance with ICEA S-68-516 (NEMA WC-8), provides:
- Excellent electrical, thermal and physical properties
- Excellent moisture resistance
- Excellent resistance to crush compression cuts and heat deformation
- Excellent flame resistance
- Excellent low temperature cold bend characteristics. Insulated conductors pass low temperature cold bend test at -65°C
- 14 AWG and larger are UL Type XHHW-2

Flame-retardant, Low Temperature Arctic-Flex Jacket Provides:
- Very low temperature characteristics
- Abrasion and chemical resistance
- Sunlight and weathering resistance (all colors)
- High flexibility

Arctic-Flex Instrumentation Cables:
- Pass the following Low Temperature Tests:
  - ICEA S-19-81 cold bend test at -65°C
  - CSA Standard C22.2, No. 0.3 abnormal low temperature cold impact test at -40°C

Arctic-Flex Instrumentation Cables Pass the Following Flame Tests:
- IEEE 1202 (70,000 BTU/hr)/ CSA FT4
- ICEA T-29-520 (210,000 BTU/hr)
- IEEE 383 (70,000 BTU/hr)
- UL 1277 (70,000 BTU/hr)

UL Listings:
- Type TC
- Direct burial
- Sunlight resistant (all colors)
- 90°C wet or dry

Applications

For applications where high performance reliability is essential and where environmental factors require cable characteristics including flame-retardance, resistance to moisture and chemicals, thermal stability and physical durability.

May Be Installed:
- In free air, raceways or direct burial
- In wet or dry locations
- At temperatures as low as -40°C
- Permitted for use in Class I Division 2 industrial hazardous locations per NEC Article 501-4(b)

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INDIVIDUAL AND OVERALL SHIELDED PAIRS/TRIADS – UL TYPE TC/ ICEA S-73-532 600V ARCTIC-FLEX™

BICC Part Number	AWG and Stranding	Number of Pairs/Triads	Insulation Thickness (inches)	Jacket Thickness (inches)	Nominal O.D. (inches)	Net Weight (lbs/1000 ft)
AFLX-S600TC-20-1PS	20 AWG 7/.0121	1 Pair	0.025	0.045	0.294	38
AFLX-S600TC-20-2SPS	20 AWG 7/.0121	2	0.025	0.045	0.450	74
AFLX-S600TC-20-4SPS	20 AWG 7/.0121	4	0.025	0.045	0.520	116
AFLX-S600TC-20-6SPS	20 AWG 7/.0121	6	0.025	0.060	0.651	180
AFLX-S600TC-20-8SPS	20 AWG 7/.0121	8	0.025	0.060	0.703	220
AFLX-S600TC-20-12SPS	20 AWG 7/.0121	12	0.025	0.080	0.884	338
AFLX-S600TC-20-16SPS	20 AWG 7/.0121	16	0.025	0.080	0.976	420
AFLX-S600TC-20-20SPS	20 AWG 7/.0121	20	0.025	0.080	1.076	504
AFLX-S600TC-20-24SPS	20 AWG 7/.0121	24	0.025	0.080	1.159	585
AFLX-S600TC-20-36SPS	20 AWG 7/.0121	36	0.025	0.080	1.357	820
AFLX-S600TC-20-50SPS	20 AWG 7/.0121	50	0.025	0.080	1.592	1094
AFLX-S600TC-18-1PS	18 AWG 7/.0152	1 Pair	0.025	0.045	0.315	48
AFLX-S600TC-18-2SPS	18 AWG 7/.0152	2	0.025	0.045	0.487	88
AFLX-S600TC-18-4SPS	18 AWG 7/.0152	4	0.025	0.060	0.600	160
AFLX-S600TC-18-6SPS	18 AWG 7/.0152	6	0.025	0.060	0.707	218
AFLX-S600TC-18-8SPS	18 AWG 7/.0152	8	0.025	0.060	0.765	269
AFLX-S600TC-18-12SPS	18 AWG 7/.0152	12	0.025	0.080	0.962	411
AFLX-S600TC-18-16SPS	18 AWG 7/.0152	16	0.025	0.080	1.064	515
AFLX-S600TC-18-20SPS	18 AWG 7/.0152	20	0.025	0.080	1.175	621
AFLX-S600TC-18-24SPS	18 AWG 7/.0152	24	0.025	0.080	1.268	724
AFLX-S600TC-18-36SPS	18 AWG 7/.0152	36	0.025	0.080	1.488	1023
AFLX-S600TC-18-50SPS	18 AWG 7/.0152	50	0.025	0.110	1.820	1488
AFLX-S600TC-16-1PS	16 AWG 7/.0192	1 Pair	0.025	0.045	0.339	56
AFLX-S600TC-16-1TPS	**16 AWG 7/.0192**	**1 Triad**	**0.025**	**0.045**	**0.357**	**71**
AFLX-S600TC-16-2SPS	16 AWG 7/.0192	2	0.025	0.060	0.565	138
AFLX-S600TC-16-4SPS	16 AWG 7/.0192	4	0.025	0.060	0.652	211
AFLX-S600TC-16-6SPS	16 AWG 7/.0192	6	0.025	0.060	0.771	285
AFLX-S600TC-16-8SPS	16 AWG 7/.0192	8	0.025	0.080	0.875	381
AFLX-S600TC-16-12SPS	16 AWG 7/.0192	12	0.025	0.080	1.051	532
AFLX-S600TC-16-16SPS	16 AWG 7/.0192	16	0.025	0.080	1.165	671
AFLX-S600TC-16-20SPS	16 AWG 7/.0192	20	0.025	0.080	1.288	811
AFLX-S600TC-16-24SPS	16 AWG 7/.0192	24	0.025	0.080	1.392	948
AFLX-S600TC-16-36SPS	16 AWG 7/.0192	36	0.025	0.080	1.647	1356
AFLX-S600TC-16-50SPS	16 AWG 7/.0192	50	0.025	0.110	2.000	1940
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Dimensions and weights are nominal, subject to industry tolerance.

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