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CUSTOMER	CLASS	FILE NUMBER
Southwire Company One Southwire Dr Carrollton Georgia United States 30119	5831-01 (/testing-certification/product-listing/class/?class=5831-01) WIRES - Flexible Cord and Electric Vehicle Cable	090458_0_000

To the requirements of standard CSA C22.2 No. 49-18 Flexible Cords and Cables:

SV, SVO rated 60/75/90C (-20C), 300V, FT2; optional: FT1, VW-1. Multi-conductor round construction. Number of conductors: 2 or 3. Size range: 18-16 AWG. Insulation: EPDM. Metallic shield: optional. Jacket: CPE or CR.

SJ, SJO, SJO0 rated 60/75/90/105C (-20C), 300V, FT2; optional: FT1, VW-1. Multi-conductor round construction. Number of conductors: 2 to 6. Size range: 18-10 AWG. Insulation: EPDM. Metallic shield: optional. Jacket: CPE or CR.

SJOW, SJOWW rated 60/75/90/105C (-40C), 300V, FT2; optional: -50C, FT1, VW-1. Multi-conductor round construction. Number of conductors: 2 to 6. Size range: 18-10 AWG. Insulation: EPDM. Metallic shield: optional. Jacket: CPE or CR.

S, SO, SOO rated 60/75/90/105C (-20C), 600V, FT2; optional: FT1, VW-1. Multi-conductor round construction. Number of conductors: 2 or more. Size range: 18-2 AWG. Insulation: EPDM. Metallic shield: optional. Jacket: CPE or CR.

SOW, SOOW rated 60/75/90/105C (-40C), 600V, FT2; optional: -50C, FT1, VW-1. Multi-conductor round construction. Number of conductors: 2 or more. Size range: 18-2 AWG. Insulation: EPDM. Metallic shield: optional. Jacket: CPE or CR.

SJE, SJEO, SJEOO rated 90/105C dry (-20C), 300V, FT2; optional: FT1. Multi-conductor round construction. Number of conductors: 2 to 6. Size range (AWG or kcmil): 18-10. Insulation: TPE. Jacket: TPE.

SJEW, SJEOW, SJEOWW rated 90/105C dry (-40C), 300V, FT2; optional: -50C, -60C, -70C, FT1. Multi-conductor round construction. Number of conductors: 2 to 6. Size range (AWG or kcmil): 18-10. Insulation: TPE. Jacket: TPE.

SEW, SEOW, SEOOW rated 90/105C dry (-40C), 600V, FT2; optional: -50C, -60C, -70C, FT1. Multi-conductor round construction. Number of conductors: 2 or more. Size range (AWG or kcmil): 18-2. Insulation: TPE. Jacket: TPE.

SVE, SVEO, SVEOO rated 90/105C dry (-20C), 300V, FT2; optional: FT1. Multi-conductor round construction. Number of conductors: 2 or 3. Size range (AWG or kcmil): 18-16. Insulation: TPE. Metallic shield: optional. Jacket: TPE.

SJE, SJEO, SJEOO rated 90/105C dry (-20C), 300V, FT2; optional: FT1. Multi-conductor round construction. Number of conductors: 2 to 6. Size range (AWG or kcmil): 18-10. Insulation: TPE. Metallic shield: optional. Jacket: TPE.

SJEW, SJEOW, SJEOOW rated 90/105C dry (-40C), 300V, FT2; optional: -50C, -60C, -70C, FT1. Multi-conductor round construction. Number of conductors: 2 to 6. Size range (AWG or kcmil): 18-10. Insulation: TPE. Metallic shield: optional. Jacket: TPE.

SE, SEO, SEOO rated 90/105C dry (-20C), 600V, FT2; optional: FT1. Multi-conductor round construction. Number of conductors: 2 or more. Size range (AWG or kcmil): 18-2. Insulation: TPE. Metallic shield: optional. Jacket: TPE.

SEW, SEOW, SEOOW rated 90/105C dry (-40C), 600V, FT2; optional: -50C, -60C, -70C, FT1. Multi-conductor round construction. Number of conductors: 2 or more. Size range (AWG or kcmil): 18-2. Insulation: TPE. Metallic shield: optional. Jacket: TPE.

SJT, SJTO rated 60C dry (-20C), 300V, FT2. Multi-conductor round construction. Number of conductors: 2 to 6. Size range (AWG or kcmil): 18-10. Insulation: PVC. Metallic shield: optional. Jacket: PVC.

SJTW, SJTOW rated 60C dry (-40C), 300V, FT2. Multi-conductor round construction. Number of conductors: 2 to 6. Size range (AWG or kcmil): 18-10. Insulation: PVC. Metallic shield: optional. Jacket: PVC.

ST, STO rated 60C dry (-20C), 600V, FT2. Multi-conductor round construction. Number of conductors: 2 or more. Size range (AWG or kcmil): 18-2. Insulation: PVC. Metallic shield: optional. Jacket: PVC.

STW, STOW rated 60C dry (-40C), 600V, FT2. Multi-conductor round construction. Number of conductors: 2 or more. Size range (AWG or kcmil): 18-2. Insulation: PVC. Metallic shield: optional. Jacket: PVC.

SPT-1 rated 60/75/90/105C dry (-20C), 300V, FT2; optional: FT1, VW-1. Multi-conductor flat-parallel construction. Number of conductors: 2 or 3. Size range (AWG or kcmil): 20-18. Insulation: PVC.

SPT-2 rated 60/75/90/105C dry (-20C), 300V, FT2; optional: FT1, VW-1. Multi-conductor flat-parallel construction. Number of conductors: 2 or 3. Size range (AWG or kcmil): 18-16. Insulation: PVC.

SPT-3 rated 60/75/90/105C dry (-20C), 300V, FT2; optional: FT1, VW-1. Multi-conductor flat-parallel construction. Number of conductors: 2 or 3. Size range (AWG or kcmil): 18-10. Insulation: PVC.

NISPT-1 rated 60/75/90/105C dry (-20C), 300V, FT2; optional: FT1. Multi-conductor flat-parallel construction. Number of conductors: 2 or 3. Size range (AWG or kcmil): 20-18. Insulation: PVC. Jacket: PVC.

NISPT-2 rated 60/75/90/105C dry (-20C), 300V, FT2; optional: FT1. Multi-conductor flat-parallel construction. Number of conductors: 2 or 3. Size range (AWG or kcmil): 18-16. Insulation: PVC. Jacket: PVC.

To the requirements of standard CSA C22.2 No. 49-14 Flexible Cords and Cables:

Type	Rated Voltage (Volt)	Size of Conductors (AWG)*	No of Conductors	Insul Type	Jacket Type	Notes
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- Temperature rating 60C:

TPT	300	-	2	PVC	-	1,2
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PXT	125	20	2	PVC	-	1,2
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S	600	18-2	2 or more	NR/IR	NR/IR	1,2,8
SJ	300	18-10	2-6	NR/IR	NR/IR	1,2,8
SO	600	18-2	2 or more	NR/IR	CR,NBR/PVC	1,2,4,8,9
SJO	300	18-10	2-6	NR/IR	CR,NBR/PVC	1,2,4,8,9
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	1,2,5,8,9
SJT, SJTO, SJTOO	300	18-10	2-6	PVC	PVC	1,2,5,8,9
SVT, SVTO, SVTOO	300	18,17,16	2,3	PVC	PVC	1,2,5,8,9
TX	125	20	2	PVC	-	1,2
SJTW, SJTOW	300	18-10	2-6	PVC	PVC	1,2,8,9,12,13
SJTOOW	300	18-10	2-6	PVC	PVC	1,2,8,9
STW, STOW	600	18-2	2 or more	PVC	PVC	1,2,8,9,12
STOOW	600	18-2	2 or more	PVC	PVC	1,2,8,9
CXWT	300	18-16	2	PVC	-	1,2
DRT	300	10-4	4	PVC	PVC	1,2
PXWT	300	18,16	2	PVC	-	1,2
SJOOW	300	18-10	2 or more	NR/IR	NBR/PVC, CR,CPE	2,4,8,9,12
SOW	600	18-2	2 or more	NR/IR	NBR/PVC, CR,CPE	2,4,8,9
TPT	300	-	2	PVC	-	1,2
PXT	125	20	2	PVC	-	1,2
S	600	18-2	2 or more	NR/IR	NR/IR	1,2,8
SJ	300	18-10	2-6	NR/IR	NR/IR	1,2,8
SO	600	18-2	2 or more	NR/IR	CR,NBR/PVC	1,2,4,8,9
SJO	300	18-10	2-6	NR/IR	CR,NBR/PVC	1,2,4,8,9
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	1,2,5,8,9

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SJT, SITO, SJTOO	300	18-10	2-6	PVC	PVC	1,2,5,8,9
SVT, SVTO, SVTOO	300	18,17,16	2,3	PVC	PVC	1,2,5,8,9
TX	125	20	2	PVC	-	1,2
SJTW, SJTOW	300	18-10	2 or more	PVC	PVC	1,2,8,9,12,13
SJTOOW	300	18-10	2 or more	PVC	PVC	1,2,8,9
STW, STOW	600	18-2	2 or more	PVC	PVC	1,2,8,9,12
STOOW	600	18-2	2 or more	PVC	PVC	1,2,8,9
CXWT	300	18-16	2	PVC	-	1,2
DRT	300	10-4	4	PVC	PVC	1,2
PXWT	300	18,16	2	PVC	-	1,2
SJOOW	300	18-10	2 or more	NR/IR	NBR/PVC, CR,CPE	2,4,8,9,12
SOW	600	18-2	2 or more	NR/IR	NBR/PVC, CR,CPE	2,4,8,9

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• Temperature rating 90C:

HPN	300	18,16,14	2,3	CR	-	2,7,10
HPN	300	16,18	2,3	CSM	-	2,7,10
HPN	300	18-12	2,3	CPE	-	1,2,10
HSJO	300	18-12	2, 3 or 4	EPR	CR	2,4,8,9
HOISTWAY	600	18	2-4	PVC	PVC	1,2
DRT	300	10-4	4	PVC	PVC	1,2
HPN	300	18,16,14	2,3	CR	-	2,7,10
HPN	300	16,18	2,3	CSM	-	2,7,10
HPN	300	18-12	2,3	CPE	-	1,2,10
HSJO	300	18-12	2, 3 or 4	EPR	CR	2,4,8,9
HOISTWAY	600	18	2-4	PVC	PVC	1,2

• Temperature rating 105C:

HPN	300	18-12	2,3	CPE	-	1,2,10
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Testing & Certification

Testing & Certification	Max Volt	Size of Conductors (AWG)	No of Conductors	Insulation Type	Jacket Type	Notes
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	1,2,6
SJT, SJTO, SJT00	300	18-10	2-6	PVC	PVC	1,2,5,6,8,9
SVT, SVTO, SVTOO	300	18,17,16	2,3	PVC	PVC	1,2,5,6,8,9
SJTW, SJTOW, SJTOOW	300	18-10	2-6	PVC	PVC	1,2,8,9,11,12,13
STW, STOW, STOOW	600	18-2	2 or more	PVC	PVC	1,2,8,9,11,12
HPN	300	18-12	2,3	CPE	-	1,2,10
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	1,2,6
SJT, SJTO, SJT00	300	18-10	2-6	PVC	PVC	1,2,5,6,8,9
SVT, SVTO, SVTOO	300	18,17,16	2,3	PVC	PVC	1,2,5,6,8,9
SJTW, SJTOW, SJTOOW	300	18-10	2 or more	PVC	PVC	1,2,8,9,11,12,13
STW, STOW, STOOW	600	18-2	2 or more	PVC	PVC	1,2,8,9,11,12

* mm² conductors sizes also apply.

Notes:

1. In all colours except clear and translucent.
2. Flame Class FT2 and/or FT1.
3. Insulation type for bonding (grounding) conductor, PVC.
4. Dark coloured jacket.
5. Optional shield.
6. Optional co-extruded green/yellow ground conductor.
7. Dark or intermediate colours only.
8. May be fillerless construction except where marked -60°C.
9. Types having a single "0" or double "00" in the type designation are recognized as "oil resistant" e.g. SJTO, S00W etc.
10. Insulation type for bonding (grounding) conductor, XLPE.
11. Investigated for 1000 hours Xenon Arc and Water Spray Test.
12. May be marked -50C.
13. Type SJTW, -40C may include a breather tube having a minimum thickness of not less than 0.40mm.
14. In all colours including clear and translucent.
15. For future use.
16. Non-integral construction.

• Max temperature rating 60°C:

Type	Max Volt	Size of Conductors (AWG)	No of Conductors	Insulation Type	Jacket Type	Notes
SVT	300	18-16	2 or 3	PVC	-	5,12,13

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SVTO	300	18-16	2 or 3	PVC	-	5,12,13
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SJTW	300	18-10	2 to 6	PVC	PVC	10,11,12,13
SJTOW	300	18-10	2 to 6	PVC	PVC	10,11,12,13
STW	600	18-2	2 or more	PVC	PVC	10,11,12,13
STOW	600	18-2	2 or more	PVC	PVC	10,11,12,13
SVT	300	18, 17, 16	2, 3	PVC	-	8,12
SJT	300	18-10	2 to 6	PVC	PVC	2,5,7,12, 13
SJTO	300	18-10	2 to 6	PVC	PVC	5,7,12,13
ST	600	18-2	2 or more	PVC	PVC	2,5,7,12,13
STO	600	18-2	2 or more	PVC	PVC	5,7,12,13
PXT	125	20	2	PVC	-	5,12,13
DRT	300	10-4	4	PVC	PVC	12,13

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- Max temperature rating 105°C:

Type	Max Volt	Size of Conductors (AWG)	No of Conductors	Insulation Type	Jacket Type	Notes
SVT	300	18-16	2, 3	PVC	PVC	7, 12, 13
SVTO	300	18-16	2, 3	PVC	PVC	7, 12, 13
SJTOOW	300	18-10	2 to 6	PVC	PVC	12, 13
SJTOW	300	18-10	2 to 6	PVC	PVC	12, 13
SJTW	300	18-10	2 to 6	PVC	PVC	12, 13
STOOW	600	18-2	2 or more	PVC	PVC	12, 13
STOW	600	18-2	2 or more	PVC	PVC	12, 13
STW	600	18-2	2 or more	PVC	PVC	12, 13
ST	600	18-2	2 or more	PVC	PVC	7, 12, 13
STO	600	18-2	2 or more	PVC	PVC	7, 12, 13
SJT	300	18-10	2-6	PVC	PVC	5, 7, 12, 13
SJTO	300	18-10	2 to 6	PVC	PVC	5, 7, 12, 13

* Trade sizes in metric "mm²" units also apply.

Notes: For specific detail see Certification report.

1. Deleted.
2. Types SJT and ST may be shielded.
3. Deleted.

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4. Deleted.
5. Flame classification - FT1.
6. Deleted.
7. May have an aramid fiber strength member centered in the conductor copper strands for wire sizes 18 or 16 AWG. See report for details.
8. Type SVT rated 60°C may be marked FT1, FT2 or FT4.
9. Low temperature rating: -50°C.
10. Optional shielding.
11. Low temperature rating: -40°C.
12. In all colours except for clear and transparent.
13. Flame classification - FT2.
14. Insulation type for bonding (grounding) conductor, PVC, PE, TPE, XLPE.
15. Low temperature rating: -70°C.
16. Deleted.

Type	Max Volt	Size of Conductors (AWG)	No of Conductors	Insul. Type	Jacket Type	Notes
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- Max temperature rating 60C:

SVT, SVTO, SVTOO	300	18,17,16	2,3	PVC	PVC	2,5,9,11,14
SJT, SJTO, SJTOO	300	18-10	2-6	PVC	PVC	2,5,9,11,12,14
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	2,5,9,11,12,14
SJOO	300	18-10	2-6	EPR, CSM, CPE	CR, CPE, CSM, NBR/PVC	2,5,8,11,12,14
SJOW, SJOWW	300	18-10	2-6	CSM	CR, CPE	2,5,8,11,12,14
SOO, SO, S	600	18-2	2 or more	EPR, CSM, CPE	CR, CPE, CSM, NBR/PVC	2,5,8,11,12,14
SOW, SOOW	600	18-2	2 or more	EPR, CSM	NBR/PVC, CR	2,5,8,11,12,14
SJTW, SJTOW, SJTOOW	300	18-10	2-6	PVC	PVC	2,5,9,11,12,14
STW, STOW, STOOW	600	18-2	2 or more	PVC	PVC	2,5,9,11,12,14

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SJT, SJO, SJOOW, SJTW, SJTOW, SJTOOW	300	18-10	2-6	LDPE	PVC	2,5,17
ST, STO, STOO, STW, STOW, STOOW	600	18-2	2 or more	LDPE	PVC	2,5,17
CXWT	300	18,16	2	PVC	-	2,4,14
CXWT	600	14-12	2	PVC	-	2,4,14
DRT	300	10-4	4	PVC	PVC	2,4, 9,14
TX	125	20	2	PVC	-	2,13,14
PXWT	300	18,16	2	PVC	-	2,4,14
PXT	125	20	2	PVC	-	2,13,14
SV, SVO	300	18,16	2,3	EPR	NBR/PVC	2,5,8,11,12,14
SJ,SJO	300	18-10	2-6	EPR, CSM, CPE	CR, NBR/PVC, CSM, CPE	2,5,8,11,12,14
Hoistway Cable	300 600	20 to 12 18 to 12	2-4 (PAR) 2-75 (Twisted)	PVC	PVC (optional)	5, 14

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- Max temperature rating 90C:

HPN	300	18,16,14	2,3	CSM	-	1,2,3,14
HPN	300	18,16,14	2,3	CR	-	2,3,4,14
HPN	300	18,16,14	2,3	CPE	-	2,3,4,14
SJOO, SJO	300	18-10	2-6	EPR, CSM, CPE	CR, CPE, CSM, NBR/PVC	2,5,8,11,12,14
SJOW, SJOOW	300	18-10	2-6	EPR, CSM	CR, CPE	2,5,8,11,12,14
SOO, SO	600	18-2	2 or more	EPR, CSM, CPE	CR, CPE, CSM, NBR/PVC	2,5,8,11,12,14
SOOW, SOW	600	18-2	2 or more	EPR, CSM	CR, CPE, CSM, NBR/PVC	2,5,8,11,12,14
HSJO	300	18-12	2,3,4	CR, EPR	CR, NBR/PVC, CSM, CPE	2,5,8,14
SVO	300	18,16	2,3	EPR	NBR/PVC	2,5,8,11,12,14

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Hoistway Cable (https://www.csagroup.org/testing-certification/)	300 600	20 to 12 18 to 12	2-4 (PAR)	PVC	PVC	5, 14
DRT	300	10-4	4	PVC	PVC	2, 5, 14, 15

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- Max temperature rating 105C:

SVT, SVTO, SVTOO	300	18,17,16	2,3	PVC	PVC	2,5,9,11,12,14
SJT, SJTO, SJTOO	300	18-10	2-6	PVC	PVC	2,5,9,11,12,14
ST, STO, STOO	600	18-2	2 or more	PVC	PVC	2,5,9,11,12,14
HPN	300	18,16,14	2,3	CSM	-	1,2,3,11,14
SO, SOO	600	18-2	2 or more	CSM	CSM, CPE	2,5,8,11,12,14
SJO, SJOO	300	18-10	2-6	CSM	CPE, CSM	2,5,8,11,12,14
SJTW, SJTOW, SJTOOW	300	18-10	2-6	PVC	PVC	2,5,9,11,12,14
STW, STOW, STOOW	600	18-2	2 or more	PVC	PVC	2,5,9,11,12,14

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Notes:

1. In dark colours only.
2. Flame test, FT2.
3. Insulation type for bonding (grounding) conductor, XLPE.
4. In light and dark colours.
5. In all colours except clear and transparent.
6. Insulation type for bonding conductor (grounding), PE.
7. Insulation type for bonding conductor (grounding), PVC.
8. Cold bend tested for -50C for CPE jacketed cord.
9. Cold bend tested for -70C.
10. Insulation may be exposed to oil at 60C max.
11. Optional shielding
12. Optional nylon covering over insulation
13. In all colours including clear or transparent.
14. Flame test, FT1
15. Cold bend tested for -40C.
16. Reserved for future use
17. Low Leakage.