Type ST-C Cables

Extra Hard Service Thermoplastic Insulated, C: Common Use

Description

Multi-conductor Cable, two, three or four flexible soft copper conductors polyolefin insulated, twisted and external PVC Rubber jacket

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Polyolefin (75° C)

Jacket
Flame retardant Polyvinyl Chloride with content of rubber

Characteristics

Operating Temperature
75° C.
Operating Voltage
600 V.

Applications

Hard Service Cord for equipment and portable tools, special for factories, scenes and display cabinets. Open wiring installation, in portable extensions with terminals.

By being of common use, it can be used like portable cord, control and power cable. Easy handling and flexibility in reduced spaces.

Specifications

CENTELSA ST-C Cables are manufactured under the following standards:

UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire.
CENTELSA Specifications for ST-C Cables

Certifications

CENTELSA ST-C Flexible cords are certified by:
CIDET (Colombia). Cert. No. 02005, according to RETIE (Colombian Technical Code of Electrical Installations) requirements

Colors

Conductors identification: 2, black-white; 3, black-white-green; 4, black-white-red-green. Black colored Jacket.

Packaging

Wood Reels. Reel lengths between 500 m and 2500 m.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Flexible Cord Type ST-C 600V, 60oC (International System Unit)

Extra Hard Service Thermoplastic Insulated, C: Common Use

Standards: UL 62, NTC 2356 and CENTELSA specifications for ST-C cables

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mm)	JACKET THICKNESS (mm)	OVERALL DIAMETER (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	DIAMETER (mm)							
20	2	10	0.254	0.51	0.97	0.64	0.76	6.26	50	35.4	2	-
	3						0.76	6.62	59	35.4		
	4						0.76	7.23	70	35.4		
18	2	16	0.254	0.81	1.23	0.76	0.76	7.26	69	22.1	10	7
	3						0.76	7.70	82	22.1		
	4						0.76	8.43	99	22.1		
16	2	26	0.254	1.32	1.51	0.76	0.76	7.82	86	13.6	13	10
	3						0.76	8.30	104	13.6		
	4						0.76	9.11	127	13.6		
14	2	41	0.254	2.08	1.98	0.76	0.76	8.76	113	8.63	18	15
	3						0.76	9.32	139	8.63		
	4						0.76	10.24	171	8.63		
12	2	65	0.254	3.29	2.52	0.76	0.76	9.84	152	5.45	25	20
	3						0.76	10.48	190	5.45		
	4						1.14	12.32	255	5.45		
10	2	104	0.254	5.27	3.21	0.76	1.14	12.00	231	3.40	30	25
	3						1.14	12.74	288	3.40		
	4						1.52	14.78	382	3.40		
8	2	168	0.254	8.51	3.66	1.14	1.52	15.25	380	2.11	40	35
	3						1.52	16.19	476	2.11		
	4						2.03	18.77	630	2.11		
6	2	266	0.254	13.48	4.77	1.52	2.03	20.05	635	1.33	55	45
	3						2.03	21.28	790	1.33		
	4						2.03	23.33	976	1.33		
4	2	420	0.254	21.28	6.00	1.52	2.41	23.29	902	0.843	70	60
	3						2.41	24.71	1133	0.843		
	4						2.41	27.08	1407	0.843		
2	2	665	0.254	33.70	7.56	1.52	2.41	26.41	1254	0.532	95	80
	3						2.41	28.07	1600	0.532		
	4						2.41	30.85	2003	0.532		

Notes:
1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 75°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Two current carrying conductors.
4. Three current carrying conductors.
5. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cord Type ST-C 600V, 60oC

Extra Hard Service Thermoplastic Insulated, C: Common Use

Standards: UL 62, NTC 2356 and CENTELSA specifications for ST-C cables

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	OVERALL DIAMETER (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	DIAMETER (mils)							
20	2	10	10.0	1.00	38	25	30	246	33	10.8	2	-
	3						30	261	39	10.8		
	4						30	284	47	10.8		
18	2	16	10.0	1.60	48	30	30	286	46	6.74	10	7
	3						30	303	55	6.74		
	4						30	332	67	6.74		
16	2	26	10.0	2.60	59	30	30	308	58	4.15	13	10
	3						30	327	70	4.15		
	4						30	359	85	4.15		
14	2	41	10.0	4.10	78	30	30	345	76	2.63	18	15
	3						30	367	93	2.63		
	4						30	403	115	2.63		
12	2	65	10.0	6.50	99	30	30	387	102	1.66	25	20
	3						30	413	128	1.66		
	4						45	485	172	1.66		
10	2	104	10.0	10.40	126	30	45	472	155	1.04	30	25
	3						45	502	194	1.04		
	4						60	582	256	1.04		
8	2	168	10.0	16.80	144	45	60	600	256	0.642	40	35
	3						60	637	320	0.642		
	4						80	739	423	0.642		
6	2	266	10.0	26.60	188	60	80	789	427	0.406	55	45
	3						80	838	531	0.406		
	4						80	919	656	0.406		
4	2	420	10.0	42.00	236	60	95	917	606	0.257	70	60
	3						95	973	761	0.257		
	4						95	1066	945	0.257		
2	2	665	10.0	66.50	298	60	95	1040	843	0.162	95	80
	3						95	1105	1075	0.162		
	4						95	1215	1346	0.162		

Notas:
1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 75°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Two current carrying conductors.
4. Three current carrying conductors.
5. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cords Type ST

Extra Hard Service Thermoplastic Insulated

Description

Multi-conductor Cable, two, three or four flexible soft copper conductors polyvinyl chloride (PVC) insulated, twisted and external PVC jacket

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 60° C)

Jacket
Flame Retardant Polyvinyl chloride (PVC 60° C)

Characteristics

Operating Temperature
60° C.
Operating Voltage
600 V.

Applications

Hard Service Cord for equipment and portable tools, special for factories, scenes and display cabinets. Open wiring installation, in portable extensions with terminals.

Specifications

CENTELSA ST Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire.

Certifications

CENTELSA ST Flexible cords are certified by UL, File E203934

Colors

Conductors identification: 2, black-white; 3, black-white-green; 4, black-white-red-green. Black colored Jacket.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Flexible Cords Type ST 600V, 60oC (International System Unit)

Extra Hard Service Thermoplastic Insulated

Standard: UL 62, NTC-2356 Flexible Cord and Fixture Wire.

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mm)	JACKET THICKNESS (mm)	OVERALL DIAMETER (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	DIAMETER (mm)							
14	2	41	0.254	2.08	1.98	1.14	2.03	12.91	210	8.63	18	15
	3						2.03	13.58	244	8.63		
	4						2.03	14.71	290	8.63		
12	2	65	0.254	3.29	2.52	1.14	2.41	14.77	283	5.45	25	20
	3						2.41	15.53	331	5.45		
	4						2.41	16.80	394	5.45		
10	2	104	0.254	5.27	3.21	1.14	2.41	16.15	357	3.40	30	25
	3						2.41	17.02	425	3.40		
	4						2.41	18.47	512	3.40		
8	2	168	0.254	8.51	3.66	1.52	2.79	19.40	535	2.11	40	35
	3						2.79	20.45	644	2.11		
	4						3.18	23.01	818	2.11		
6	2	266	0.254	13.48	4.12	1.52	3.18	21.10	692	1.33	55	45
	3						3.18	22.23	851	1.33		
	4						3.56	24.90	1082	1.33		
4	2	420	0.254	21.28	6.72	1.52	3.56	27.09	1088	0.843	70	60
	3						3.56	28.62	1327	0.843		
	4						3.94	31.96	1674	0.843		
2	2	665	0.254	33.70	8.58	1.52	3.94	31.59	1541	0.532	95	80
	3						3.94	33.41	1899	0.532		
	4						4.32	37.15	2388	0.532		

Notes:
1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Two current carrying conductors.
4. Three current carrying conductors.
5. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cords Type ST 600V, 60oC
Extra Hard Service Thermoplastic Insulated

Standard: UL 62, NTC-2356 Flexible Cord and Fixture Wire.

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	OVERALL DIAMETER (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	DIAMETER (mils)							
14	2 3 4	41	10.0	4.10	78	45	80 80 80	508 535 579	141 164 195	2.63 2.63 2.63	18	15
12	2 3 4	65	10.0	6.50	99	45	95 95 95	582 611 661	190 222 265	1.66 1.66 1.66	25	20
10	2 3 4	104	10.0	10.40	126	45	95 95 95	636 670 727	240 286 344	1.04 1.04 1.04	30	25
8	2 3 4	168	10.0	16.80	144	60	110 110 125	764 805 906	359 433 550	0.642 0.642 0.642	40	35
6	2 3 4	266	10.0	26.60	162	60	125 125 140	831 875 980	465 572 727	0.406 0.406 0.406	55	45
4	2 3 4	420	10.0	42.00	265	60	140 140 155	1066 1127 1258	731 892 1125	0.257 0.257 0.257	70	60
2	2 3 4	665	10.0	66.50	338	60	155 155 170	1244 1315 1463	1036 1277 1605	0.162 0.162 0.162	95	80

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Two current carrying conductors.
4.Three current carrying conductors.
5. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cords Type SJT

Junior Hard Service Thermoplastic Insulated

Description

Multi-conductor Cable, two, three or four flexible soft copper conductors polyvinyl chloride (PVC) insulated, twisted and external PVC jacket

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 60° C)
Jacket
Flame Retardant Polyvinyl chloride (PVC 60° C)

Characteristics

Operating Temperature
60° C.
Operating Voltage
300 V.

Applications

Junior Hard Service Cord for industrial, commercial and residential equipment. Open wiring installation, in portable extensions with terminals.

Specifications

CENTELSA SJT Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire.

Certifications

CENTELSA SJT Flexible cords are certified by UL, File E203934

Colors

Conductors identification: 2, black-white; 3, black-white-green; 4, black-white-red-green. Black colored Jacket.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Flexible Cords Type SJT 600V, 60oC (International System Unit)
Junior Hard Service Thermoplastic Insulated

Standard: UL 62, NTC-2356 Flexible Cord and Fixture Wire.

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mm)	JACKET THICKNESS (mm)	OVERALL DIAMETER (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	DIAMETER (mm)							
18	2	16	0.254	0.81	1.23	0.76	0.76	7.26	69	22.1	10	7
	3						0.76	7.70	82	22.1		
	4						0.76	8.43	99	22.1		
16	2	26	0.254	1.32	1.51	0.76	0.76	7.82	86	13.6	13	10
	3						0.76	8.30	104	13.6		
	4						0.76	9.11	127	13.6		
14	2	41	0.254	2.08	1.98	0.76	0.76	8.76	113	8.63	18	15
	3						0.76	9.32	139	8.63		
	4						0.76	10.24	171	8.63		
12	2	65	0.254	3.29	2.52	0.76	1.14	10.62	169	5.45	25	20
	3						1.14	11.26	208	5.45		
	4						1.14	12.32	255	5.45		
10	2	104	0.254	5.27	3.21	1.14	1.52	14.35	298	3.40	30	25
	3						1.52	15.22	363	3.40		
	4						1.52	16.67	445	3.40		

Notes:
1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Two current carrying conductors.
4. Three current carrying conductors.
5. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cords Type SJT 600V, 60oC
Junior Hard Service Thermoplastic Insulated

Standard: UL 62, NTC-2356 Flexible Cord and Fixture Wire.

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	OVERALL DIAMETER (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	DIAMETER (mils)							
18	2	16	10.0	1.60	48	30	30	286	46	6.74	10	7
	3						30	303	55	6.74		
	4						30	332	67	6.74		
16	2	26	10.0	2.60	59	30	30	308	58	4.15	13	10
	3						30	327	70	4.15		
	4						30	359	85	4.15		
14	2	41	10.0	4.10	78	30	30	345	76	2.63	18	15
	3						30	367	93	2.63		
	4						30	403	115	2.63		
12	2	65	10.0	6.50	99	30	45	418	114	1.66	25	20
	3						45	443	140	1.66		
	4						45	485	172	1.66		
10	2	104	10.0	10.40	126	45	60	565	200	1.04	30	25
	3						60	599	244	1.04		
	4						60	656	299	1.04		

Notes:
1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Two current carrying conductors.
4. Three current carrying conductors.
5. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cords Type SVT

Service Vacuum-cleaner cord, Thermoplastic Insulated

Description

Multi-conductor Cable, two, three or four flexible soft copper conductors polyvinyl chloride (PVC) insulated, twisted and external PVC jacket

Construction

Conductor
Flexible soft copper conductor, Class M stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 60° C)
Jacket
Flame Retardant Polyvinyl chloride (PVC 60° C)

Characteristics

Operating Temperature
60° C.
Operating Voltage
300 V.

Applications

Service Cord, vacuum cleaner cord computers and similar equipments.
Open wiring installation, in portable extensions with terminals.

Specifications

CENTELSA SVT Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire.

Certifications

CENTELSA SVT Flexible cords are certified by UL, File E203934

Colors

Conductors identification: 2, black-white; 3, black-white-green; 4, black-white-red-green. Black colored Jacket.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Flexible Cord Type SVT 300V 60°C (International System Unit)
Service Vacuum-cleaner cord, Thermoplastic Insulated

Standard: UL 62, NTC-ICONTEC 2356. Flexible and Fixture Wire

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mm)	JACKET THICKNESS (mm)	OVERALL DIAMETER (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	DIAMETER (mm)							
18	2	41	0.160	0.82	1.16	0.38	0.76	5.60	46	22.1	10	7
	3				6.76		0.76	5.91	56	22.1		
	4				6.00		0.76	6.43	68	22.1		
16	2	65	0.160	1.31	1.48	0.38	0.76	6.24	62	13.6	13	10
	3				6.76		0.76	6.60	76	13.6		
	4				6.00		0.76	7.20	94	13.6		

Notes:
1. Fourth conductor is used as grounding conductor.
2. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
3. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
4. Two current carrying conductors.
5. Three current carrying conductors.
6. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Flexible Cord Type SVT 300V 60°C
Service Vacuum-cleaner cord, Thermoplastic Insulated

Standard: UL 62, NTC-ICONTEC 2356. Flexible and Fixture Wire

SIZE AWG	CONDUCTORS No.	COPPER CONDUCTOR				INSULATION THICKNESS (mils)	JACKET THICKNESS (mils)	OVERALL DIAMETER (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A) [3]	AMPACITY [2] (A) [4]
		STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	DIAMETER (mils)							
18	2	41	6.3	1.63	46	15	30	220	31	6.74	10	7
	3						30	233	38	6.74		
	4						30	253	46	6.74		
16	2	65	6.3	2.58	58	15	30	246	41	4.15	13	10
	3						30	260	51	4.15		
	4						30	284	63	4.15		

Notes:
1. Fourth conductor is used as grounding conductor.
2. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
3. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
4. Two current carrying conductors.
5. Three current carrying conductors.
6. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Parallel Cord Type SPT-C

Parallel Cord, Thermoplastic Insulated

Description

Two copper flexible copper conductor, paralleled and PVC insulated.

Construction

Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 60° C)
Integral insulation with separation membrane, and polarization ridges in one conductor.

Characteristics

Operating Temperature
60° C.
Operating Voltage
300 V. (600V optional)

Applications

Service Cord, for portable electrical devices. Open wiring installation, in portable extensions with terminals.

Specifications

CENTELSA SPT Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire.
CENTELSA Specifications for SPT-C Cables

Certifications

CENTELSA SPT-C Paralleled cords are certified by:
CIDET (Colombia). Cert. No. 02004, according to RETIE (Colombian Technical Code of Electrical Installations) requirements

Colors
White, grey brown and black. Optional with red strip at one conductor for polarization indication.

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Paralleled Cord Type SPT-C 300V, 60°C (International System Unit)
Parallel Cord, Thermoplastic Insulated

Standards: UL 62, NTC 2356 and CENTELSA specifications for SPT-C cables

SIZE AWG	COPPER CONDUCTOR				INSULATION THICKNESS (mm)	EXTERNAL DIMENSIONS (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A)
	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	DIAMETER (mm)					
2 X 22	7	0.254	0.35	0.76	0.51	1.86 X 3.72	14	49.6	-
2 X 20	10	0.254	0.51	0.97	0.51	2.07 X 4.14	17	34.7	2
2 X 18	16	0.254	0.81	1.23	0.64	2.59 X 5.17	28	21.7	10
2 X 16	26	0.254	1.32	1.51	0.64	2.87 X 5.73	39	13.3	13
2 X 14	41	0.254	2.08	1.98	0.64	3.34 X 6.67	57	8.46	18
2 X 12	65	0.254	3.29	2.52	0.64	3.88 X 7.75	84	5.34	25

Notes:
1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Paralleled Cord Type SPT-C 300V, 60°C)
Parallel Cord, Thermoplastic Insulated

Standards: UL 62, NTC 2356 and CENTELSA specifications for SPT-C cables

SIZE AWG	COPPER CONDUCTOR				INSULATION THICKNESS (mils)	EXTERNAL DIMENSIONS (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A)
	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	DIAMETER (mils)					
2 X 22	7	10.0	0.70	30	20	73 X 147	9	15.1	-
2 X 20	10	10.0	1.00	38	20	82 X 163	12	10.6	2
2 X 18	16	10.0	1.60	48	25	102 X 204	19	6.61	10
2 X 16	26	10.0	2.60	59	25	113 X 226	26	4.07	13
2 X 14	41	10.0	4.10	78	25	131 X 263	38	2.58	18
2 X 12	65	10.0	6.50	99	25	153 X 305	56	1.63	25

Notes:
1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Paralleled Cord
Type SPT-1 SPT-2 SPT-3

Parallel Cord, Thermoplastic Insulated

Description

Two copper flexible copper conductor, paralleled and PVC insulated.

Conductor
Flexible soft copper conductor, Class M stranded for SPT-1 and SPT-2
Flexible soft copper conductor, Class K stranded for SPT-3

Insulation
Flame Retardant Polyvinyl chloride (PVC 60° C)
Integral insulation with separation membrane, and polarization ridges in one conductor.

Characteristics

Operating Temperature
60° C.
Operating Voltage
300 V.

Applications

SPT-1: Portable lamps feeders, fans, radios, clocks, household appliances and office equipment.
SPT-2: Same as above, stereo and video devices
SPT-3: Freezers, coolers, air conditioning equipment, dish washing machines, waste disposers and office equipment.

Specifications

CENTELSA SPT-1, SPT-2 and SPT-3 Paralleled Cords are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords

UL 62, NTC-2356 Flexible Cord and Fixture Wire.

Colors
White, grey, brown and black.

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Paralleled Cords Type SPT-1 SPT-2 SPT-3 300V, 60°C (International System Unit)

Parallel Cord, Thermoplastic Insulated

Standard: UL 62, NTC 2356. Flexible and Fixture Wire

TYPE	SIZE AWG	COPPER CONDUCTOR				INSULATION THICKNESS (mm)	EXTERNAL DIMENSIONS (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A)
		STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	DIAMETER (mm)					
SPT-1	2 X 20	26	0.160	0.52	0.92	0.76	2.52 X 4.63	17	33.6	2
	2 X 18	41	0.160	0.82	1.16	0.76	2.76 X 5.11	24	21.3	10
SPT-2	2 X 18	41	0.160	0.82	1.16	1.14	3.53 X 6.78	36	21.3	10
	2 X 16	65	0.160	1.31	1.48	1.14	3.85 X 7.42	50	13.5	13
SPT-3	2 X 18	16	0.254	0.81	1.23	1.52	4.39 X 8.49	51	21.7	10
	2 X 16	26	0.254	1.32	1.51	1.52	4.67 X 9.05	68	13.3	13
	2 X 14	41	0.254	2.08	1.98	2.03	6.16 X 11.01	115	8.46	18
	2 X 12	65	0.254	3.29	2.52	2.41	7.48 X 12.87	177	5.34	25
	2 X 10	104	0.254	5.27	3.21	2.79	8.96 X 15.04	268	3.34	30

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Paralleled Cords Type SPT-1 SPT-2 SPT-3 300V, 60°C

Parallel Cord, Thermoplastic Insulated

Standard: UL 62, NTC 2356. Flexible and Fixture Wire

TYPE	SIZE AWG	COPPER CONDUCTOR				INSULATION THICKNESS (mils)	EXTERNAL DIMENSIONS (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A)
		STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	DIAMETER (mils)					
SPT-1	2 X 20	26	6.3	1.03	36	30	99 X 182	12	10.3	2
	2 X 18	41	6.3	1.63	46	30	109 X 201	16	6.50	10
SPT-2	2 X 18	41	6.3	1.63	46	45	139 X 267	24	6.50	10
	2 X 16	65	6.3	2.58	58	45	152 X 292	33	4.10	13
SPT-3	2 X 18	16	10.0	1.60	48	60	173 X 334	35	6.61	10
	2 X 16	26	10.0	2.60	59	60	184 X 356	46	4.07	13
	2 X 14	41	10.0	4.10	78	80	243 X 434	77	2.58	18
	2 X 12	65	10.0	6.50	99	95	295 X 507	119	1.63	25
	2 X 10	104	10.0	10.40	126	110	353 X 592	180	1.02	30

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type TFF and TWK

Thermoplastic Insulation, Flexible Fixture Wire
Thermoplastic Insulation, Suitable for Wet Locations, Class K Stranding

Description

Soft copper flexible conductor PVC insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 60° C)

Characteristics

Operation Temperature
60° C.
Operating Voltage
600 V.

Applications

Internal equipment wiring, boards, in ducts or raceways.
Also used in low voltage automotive wiring.

Specifications

CENTELSA TFF and TWK Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire, for TFF
UL 83, NTC-1332 Thermoplastic insulated Wires and Cables, for TWK

Colors
Black, white, red, green, yellow, blue.

Packaging

100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Cables Type TFF and TWK 600V, 60°C (International System Units)
Thermoplastic Insulation, Flexible Fixture Wire
Thermoplastic Insulation, Suitable for Wet Locations, Class K Stranding

Standard: UL 62, NTC 2356. Flexible and Fixture Wire, for TFF
UL 83, NTC-1332 Thermoplastic insulated Wires and Cables, for TWK

TYPE	SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A)
TFF	18	16	0.254	0.81	1.23	0.76	2.83	15	21.7	10
	16	26	0.254	1.32	1.51	0.76	3.11	20	13.3	13
TWK	14	41	0.254	2.08	1.98	0.76	3.58	29	8.46	18
	12	65	0.254	3.29	2.52	0.76	4.12	42	5.34	25
	10	104	0.254	5.27	3.21	0.76	4.81	63	3.34	30
	8	168	0.254	8.51	3.66	1.14	6.04	104	2.07	40
	6	266	0.254	13.48	4.12	1.52	7.28	164	1.30	55

Notes:
1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type TFF and TWK 600V, 60°C
Thermoplastic Insulation, Flexible Fixture Wire
Thermoplastic Insulation, Suitable for Wet Locations, Class K Stranding

Standard: UL 62, NTC 2356. Flexible and Fixture Wire, for TFF
UL 83, NTC-1332 Thermoplastic insulated Wires and Cables, for TWK

TYPE	SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A)
TFF	18	16	10.0	1.60	48	30	111	10	6.61	10
	16	26	10.0	2.60	59	30	122	14	4.07	13
TWK	14	41	10.0	4.10	78	30	141	20	2.58	18
	12	65	10.0	6.50	99	30	162	28	1.63	25
	10	104	10.0	10.40	126	30	189	42	1.02	30
	8	168	10.0	16.80	144	45	238	70	0.630	40
	6	266	10.0	26.60	162	60	287	110	0.398	55

Notes:
1. Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type TFFN

Thermoplastic Insulation, Flexible Fixture Wire, Nylon Jacket

Description

Soft copper conductor, PVC insulated and with a Nylon covering

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Polyvinyl Chloride (PVC 90° C), flame retardant

Jacket
Abrasion resistant Nylon

Characteristics

Operating Temperature
90°C.

Operating Voltage
600 V.

Applications

TFFN cables and wires are used generally in internal equipment and board wiring. Installation: in ducts tubing and boards.

Special for locations with abrasive environment, oil, grease, gasoline and other chemical agents contaminated ambient. Its reduced diameter permits an optimum utilization of ducts or sites where is installed.

Standards

CENTELSA TFFN wires and cables are manufactured under the following standards:

UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire

Colors
Black, white, red, yellow, blue.

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Cable Type TFFN 600V (International System Units)
Thermoplastic Insulation, Fixture Wire, Nylon Jacket (90° C)

Standard: UL 62, NTC-2356. Flexible Cord and Fixture Wire.

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	JACKET THICKNESS (mm)	DIAMETER OVER JACKET (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A)
18	16	0.254	0.81	1.23	0.38	2.06	0.10	2.29	11	21.4	6
16	26	0.254	1.32	1.51	0.38	2.36	0.10	2.59	17	13.4	8

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cable Type TFFN 600V, 90°C
Thermoplastic Insulation, Fixture Wire, Nylon Jacket

Standard: UL 62, NTC-2356. Flexible Cord and Fixture Wire.

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	JACKET THICKNESS (mils)	DIAMETER OVER JACKET (mm)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A)
18	16	10.0	1.60	48	15	81	4	90	8	6.51	6
16	26	10.0	2.60	59	15	93	4	102	11	4.10	8

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacities based on 60°C conductor temperature, and Section 400 of NEC (NTC 2050) and 30°C ambient temperature.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Lighting Cables

Description

Soft copper flexible conductor PVC insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 105° C)

Characteristics

Operating Temperature
105° C.

Operating Voltage
600 V.

Applications

Lighting connections and high temperature applications.

Specifications

CENTELSA LIGHTING Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 83, NTC-1332 Thermoplastic insulated Wires and Cables
UL 62, NTC-2356 Flexible Cord and Fixture Wire (Sizes 20 to 16 AWG)
CENTELSA Specifications for LIGHTING Cables

Colors
Black, white, red, yellow, blue.

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Lighting Cables 105°C (International System Units)

Standard: UL 62, NTC 2356. Flexible and Fixture Wire
UL 83, NTC-1332 Thermoplastic insulated Wires and Cables
CENTELSA Specifications for LIGHTING Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
20	10	0.254	0.51	0.97	0.76	2.23	9	34.7
18	16	0.254	0.81	1.23	0.76	2.49	13	21.7
16	26	0.254	1.32	1.51	0.76	2.77	18	13.3
14	41	0.254	2.08	1.98	0.76	3.24	26	8.46
12	65	0.254	3.29	2.52	0.76	3.78	39	5.34
10	104	0.254	5.27	3.21	0.76	4.47	59	3.34
8	168	0.254	8.51	3.66	1.14	5.52	96	2.07
6	266	0.254	13.48	4.12	1.52	6.58	152	1.30

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Lighting Cables 105°C

Standard: UL 62, NTC 2356. Flexible and Fixture Wire
UL 83, NTC-1332 Thermoplastic insulated Wires and Cables
CENTELSA Specifications for LIGHTING Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
20	10	10.0	1.00	38	30	88	6	10.6
18	16	10.0	1.60	48	30	98	8	6.6
16	26	10.0	2.60	59	30	109	12	4.1
14	41	10.0	4.10	78	30	128	18	2.58
12	65	10.0	6.50	99	30	149	26	1.63
10	104	10.0	10.40	126	30	176	40	1.02
8	168	10.0	16.80	144	45	217	65	0.63
6	266	10.0	26.60	162	60	259	102	0.40

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type XGW

Cross (X) Linked Polyethylene Insulated 125°C, General Purpose Wire

Description

Soft copper flexible conductor XLPE insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame retardant Black Cross Linked Polyethylene (XLPE 125°C)

Characteristics

Operating Temperature
125° C.

Applications

Used generally in internal equipment and board wiring. Installation in ducts or raceways. High temperature applications. Also used in automotive low voltage wiring. Insulation resistant to abrasion, gasoline, oil, solvents and chemical agents.

Specifications

CENTELSA XGW Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
CENTELSA Specifications for XGW Cables

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Cables Type XGW 600V, 125°C (International System Units)
Cross (X) Linked Polyethylene Insulated 125°C, General Purpose Wire

Standard: CENTELSA Specifications for XGW Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
20	10	0.254	0.51	0.97	0.74	2.19	9	34.7
18	16	0.254	0.81	1.23	0.76	2.49	13	21.7
16	26	0.254	1.32	1.51	0.81	2.85	18	13.3
14	41	0.254	2.08	1.98	0.89	3.44	28	8.46
12	65	0.254	3.29	2.52	0.94	4.06	41	5.34
10	104	0.254	5.27	3.21	1.04	4.91	64	3.34
8	168	0.254	8.51	3.66	1.09	5.42	95	2.07

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type XGW 600V, 125°C
Cross (X) Linked Polyethylene Insulated 125°C, General Purpose Wire

Standard: CENTELSA Specifications for XGW Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
20	10	10.0	1.00	38	29	84	6	10.6
18	16	10.0	1.60	48	30	95	8	6.61
16	26	10.0	2.60	59	32	110	12	4.07
14	41	10.0	4.10	78	35	133	19	2.58
12	65	10.0	6.50	99	37	157	28	1.63
10	104	10.0	10.40	126	41	191	43	1.02
8	168	10.0	16.80	144	43	211	64	0.630

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type HTS-C

Heavy Duty Thermoset Elastomer (Synthetic Rubber) Insulated 150°C, C: Common use

Description

Soft tinned copper flexible conductor Thermoset Elastomer insulated.

Construction

Conductor
Flexible tinned soft copper conductor, Class K stranded

Insulation
Black Thermoset Elastomer Flame retardant (XLPE 150°C)

Characteristics

Operating Temperature
150° C.

Applications

Used generally in internal equipment and board wiring. Installation in ducts or raceways, transit zones, high temperature applications. Also used in automotive low voltage wiring.
Flexible insulation, low smoke emissions, non halogenated, lead free and excellent thermal stability.

Specifications

CENTELSA HTS-C Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
CENTELSA Specifications for HTS-C Cables

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Cables Type HTS-C 600V, 150°C (International System Unit)

Heavy Duty Thermoset Elastomer (Synthetic Rubber) Insulated 150°C, C: Common use

Standard: CENTELSA Specifications for HTS-C Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
18	16	0.254	0.81	1.23	0.73	2.77	14	22.6
16	26	0.254	1.32	1.51	0.79	3.17	20	13.9
14	41	0.254	2.08	1.98	0.82	3.70	29	8.8
12	65	0.254	3.29	2.52	0.90	4.42	44	5.6
10	104	0.254	5.27	3.21	0.90	5.11	65	3.5
8	168	0.254	8.51	3.66	1.10	5.94	101	2.1
6	266	0.254	13.48	4.12	1.19	6.60	151	1.4
4	420	0.254	21.28	6.72	1.27	9.36	239	0.9
2	665	0.254	33.70	8.58	1.29	11.26	365	0.5
1	836	0.254	42.36	9.77	1.29	12.45	451	0.4
1/0	1064	0.254	53.91	11.10	1.29	13.78	564	0.3
2/0	1323	0.254	67.04	12.47	1.29	15.15	691	0.3
3/0	1666	0.254	84.42	14.10	1.54	17.30	878	0.2
4/0	2107	0.254	106.76	15.97	1.54	19.17	1094	0.2

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Cables Type HTS-C 600V, 150°C

Heavy Duty Thermoset Elastomer (Synthetic Rubber) Insulated 150°C, C: Common use

Standard: CENTELSA Specifications for HTS-C Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
18	16	10.0	1.60	48	29	109	9	6.9
16	26	10.0	2.60	59	31	125	14	4.23
14	41	10.0	4.10	78	32	146	20	2.68
12	65	10.0	6.50	99	36	174	30	1.69
10	104	10.0	10.40	126	36	201	44	1.06
8	168	10.0	16.80	144	43	234	68	0.65
6	266	10.0	26.60	162	47	260	102	0.41
4	420	10.0	42.00	265	50	369	161	0.26
2	665	10.0	66.50	338	51	443	245	0.16
1	836	10.0	83.60	385	51	490	303	0.13
1/0	1064	10.0	106.40	437	51	543	379	0.10
2/0	1323	10.0	132.30	491	51	596	464	0.08
3/0	1666	10.0	166.60	555	61	681	590	0.06
4/0	2107	10.0	210.70	629	61	755	735	0.05

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables Type GPT

General Purpose Thermoplastic Insulated

Description

Soft copper flexible conductor PVC insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 75° C)

Characteristics

Operating Temperature
75° C.

Operating Voltage
50 V.

Applications

Low voltage automotive wiring. Insulation resistant to abrasion gasoline and oil.

Specifications

CENTELSA GPT Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
SAE J1128 NTC-1116 Primary Low Voltage Cables

Colors
Black, white, red, yellow, blue, brown, orange grey and violet.

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Automotive Cables Type GPT 50V, 75°C (International System Units)
General Purpose Thermoplastic Insulated

Standard: SAE J1128 NTC-1116, Primary Low Voltage Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
22	7	0.254	0.35	0.76	0.58	1.76	6	49.6
20	10	0.254	0.51	0.97	0.58	1.97	8	34.7
18	16	0.254	0.81	1.23	0.58	2.23	11	21.7
16	26	0.254	1.32	1.51	0.58	2.51	16	13.3
14	41	0.254	2.08	1.98	0.58	2.98	24	8.46
12	65	0.254	3.29	2.52	0.66	3.62	38	5.34
10	104	0.254	5.27	3.21	0.79	4.51	59	3.34
8	168	0.254	8.51	3.66	0.94	5.20	93	2.07

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables Type GPT 50V, 75°C
General Purpose Thermoplastic Insulated

Standard: SAE J1128 NTC-1116, Primary Low Voltage Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
22	7	10.0	0.70	30	23	69	4	15.1
20	10	10.0	1.00	38	23	78	5	10.6
18	16	10.0	1.60	48	23	88	8	6.61
16	26	10.0	2.60	59	23	99	11	4.07
14	41	10.0	4.10	78	23	117	16	2.58
12	65	10.0	6.50	99	26	143	25	1.63
10	104	10.0	10.40	126	31	178	40	1.02
8	168	10.0	16.80	144	37	205	62	0.630

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables
Type TWP

Thin Wall, Thermo Plastic Insulated

Description

Soft copper flexible conductor PVC insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 75° C)

Characteristics

Operating Temperature
75° C.

Operating Voltage
50 V.

Applications

Low voltage automotive wiring where the reduced diameter offers an optimum utilization of site in which is installed. Insulation resistant to abrasion gasoline and oil.

Specifications

CENTELSA TWP Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
SAE J1128 NTC-1116 Primary Low Voltage Cables

Colors
Black, white, red, yellow, blue, brown, orange grey and violet.

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Automotive Cable Type TWP 50V, 75°C
(Internacional System Units)
Thin Wall, ThermoPlastic Insulated

Standard: SAE J1128 NTC-1116, Primary Low Voltage Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
22	7	0.254	0.35	0.76	0.40	1.44	5	49.6
20	10	0.254	0.51	0.97	0.40	1.65	7	34.7
18	16	0.254	0.81	1.23	0.40	1.91	10	21.7
16	26	0.254	1.32	1.51	0.40	2.19	15	13.3
14	41	0.254	2.08	1.98	0.40	2.66	22	8.46
12	65	0.254	3.29	2.52	0.45	3.32	35	5.34
10	104	0.254	5.27	3.21	0.50	4.07	55	3.34
8	168	0.254	8.51	3.66	0.55	4.58	86	2.07

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cable Type TWP 50V, 75°C
Thin Wall, ThermoPlastic Insulated

Standard: SAE J1128 NTC-1116, Primary Low Voltage Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
22	7	10.0	0.70	30	16	55	3	15.1
20	10	10.0	1.00	38	16	63	4	10.6
18	16	10.0	1.60	48	16	73	7	6.61
16	26	10.0	2.60	59	16	84	10	4.07
14	41	10.0	4.10	78	16	103	15	2.58
12	65	10.0	6.50	99	18	127	24	1.63
10	104	10.0	10.40	126	20	157	37	1.02
8	168	10.0	16.80	144	22	178	58	0.630

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables Type SGT. Battery Cable

Starter or Ground, General Purpose Thermoplastic Insulated

Description

Soft copper flexible conductor PVC insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Polyvinyl chloride (PVC 75° C)

Characteristics

Operating Temperature
75° C.

Operating Voltage
50 V.

Applications

SGT cables are used to connect the system of engine Start-up. Insulation is resistant to abrasion, gasoline, oil, solvents and chemical agents.

Specifications

CENTELSA SGT Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
SAE J1127 NTC-1955 Battery Cables

Packaging
Wood reels or spools upon request.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Automotive Cables Type SGT 50V, 75°C (International System Unit)
Starter or Ground, General Purpose Thermoplastic Insulated

Standard: SAE J1127 NTC-1955. Battery Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
6	266	0.254	13.48	4.12	1.52	6.58	152	1.30
4	420	0.254	21.28	6.72	1.65	9.40	243	0.826
2	665	0.254	33.70	8.58	1.65	11.26	368	0.522
1	836	0.254	42.36	9.77	1.65	12.45	454	0.415
1/0	1064	0.254	53.91	11.10	1.65	13.78	568	0.326
2/0	1323	0.254	67.04	12.47	1.65	15.15	697	0.262
3/0	1666	0.254	84.42	14.10	1.98	17.30	886	0.208
4/0	2107	0.254	106.76	15.97	1.98	19.17	1105	0.165

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables Type SGT 50V, 75°C
Starter or Ground, General Purpose Thermoplastic Insulated

Standard: SAE J1127 NTC-1955. Battery Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
6	266	10.0	26.60	162	60	259	102	0.398
4	420	10.0	42.00	265	65	370	163	0.252
2	665	10.0	66.50	338	65	443	247	0.159
1	836	10.0	83.60	385	65	490	305	0.127
1/0	1064	10.0	106.40	437	65	543	382	0.0994
2/0	1323	10.0	132.30	491	65	596	469	0.0800
3/0	1666	10.0	166.60	555	78	681	595	0.0635
4/0	2107	10.0	210.70	629	78	755	742	0.0502

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables Type SXL

Special Purpose, Cross (X) Linked Polyethylene Insulated

Description

Soft copper flexible conductor XLPE insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame retardant Cross Linked Polyethylene (XLPE 125°C)

Characteristics

Operating Temperature
125° C.

Operating Voltage
50 V.

Applications

Low voltage automotive, special for vane motor. Applications where heavy duty requires more than GPT cables. Insulation resistant to abrasion gasoline and oil.

Specifications

CENTELSA SXL Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
SAE J1128 NTC-1116 Primary Low Voltage Cables

Colors
Black, red, orange

Packaging
100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Automotive Cables Type SXL 50V, 75°C (International System Unit)
Special Purpose, Cross (X) Linked Polyethylene Insulated

Standard: SAE J1128 NTC-1116, Primary Low Voltage Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
20	10	0.254	0.51	0.97	0.74	2.19	9	34.7
18	16	0.254	0.81	1.23	0.76	2.49	13	21.7
16	26	0.254	1.32	1.51	0.81	2.85	18	13.3
14	41	0.254	2.08	1.98	0.89	3.44	28	8.46
12	65	0.254	3.29	2.52	0.94	4.06	41	5.34
10	104	0.254	5.27	3.21	1.04	4.91	64	3.34
8	168	0.254	8.51	3.66	1.09	5.42	95	2.07

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Automotive Cables Type SXL 50V, 75°C
Special Purpose, Cross (X) Linked Polyethylene Insulated

Standard: SAE J1128 NTC-1116, Primary Low Voltage Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
20	10	10.0	1.00	38	29	84	6	10.6
18	16	10.0	1.60	48	30	95	8	6.61
16	26	10.0	2.60	59	32	110	12	4.07
14	41	10.0	4.10	78	35	133	19	2.58
12	65	10.0	6.50	99	37	157	28	1.63
10	104	10.0	10.40	126	41	191	43	1.02
8	168	10.0	16.80	144	43	211	64	0.630

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Silicon Cables Type SF

Silicon Insulated Flexible

Description

Soft copper flexible conductor Silicon Rubber insulated.

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Silicon Rubber natural color (Beige)

Characteristics

Operation Temperature
200° C.
Operating Voltage
600 V.

Applications

High temperature applications like motors wiring, internal wiring of luminaries, ballast, dryers, ovens, freezers, coolers
Excellent insulation performance at high temperatures

Specifications

CENTELSA SF Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire

Packaging

100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Silicon Cable Type SF 600V, 200°C (International System Unit)

Silicon Insulated Flexible

Standard: UL 62, NTC-2356. Flexible and Fixture Wire

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)
18	16	0.254	0.81	1.23	0.76	2.83	13	21.7
16	26	0.254	1.32	1.51	0.76	3.11	19	13.3
14	41	0.254	2.08	1.98	0.76	3.58	27	8.46
12	65	0.254	3.29	2.52	0.76	4.12	40	5.34
10	104	0.254	5.27	3.21	0.76	4.81	60	3.34

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Silicon Cable Type SF 600V, 200°C

Silicon Insulated Flexible

Standard: UL 62, NTC-2356. Flexible and Fixture Wire

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)
18	16	10.0	1.60	48	30	111	9	6.61
16	26	10.0	2.60	59	30	122	13	4.07
14	41	10.0	4.10	78	30	141	18	2.58
12	65	10.0	6.50	99	30	162	27	1.63
10	104	10.0	10.40	126	30	189	40	1.02

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

Welding Cable

Description

Soft copper flexible conductor with Elastomer Thermoplastic insulation

Construction

Conductor
Flexible soft copper conductor, Class K stranded

Insulation
Flame Retardant Black Elastomer Thermoplastic i(TPR 105°C)

Characteristics

Operation Temperature
105° C.
Operating Voltage
600 V.

Applications

Extra hard service Cable, flexible and resistant to heavy-duty, for electric welding equipments.
Insulation: Rough handling, abrasion and spark welding resistant.

Specifications

CENTELSA SF Cables are manufactured under the following standards:
UL 1581, NTC-3203 Reference Standard for Electrical Wires, Cables and Flexible Cords
UL 62, NTC-2356 Flexible Cord and Fixture Wire

Packaging

100 m spools covered with plastic thermo pack, in corrugated carton boxes.

Note: Other configurations, sizes, colors and length not specified herein are available upon request.

Welding Cable 600V, 105oC (International System Units)

Standard: BS 638. Arc welding power coerces equipment and accessories.
CENTELSA Specifications for HTS-C Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mm)	SECTION (mm^2)	CONDUCTOR DIAMETER (mm)	INSULATION THICKNESS (mm)	DIAMETER OVER INSULATION (mm)	APPROX. TOTAL WEIGHT (kg/km)	DC RESISTANCE AT 20°C [1] (ohm/km)	AMPACITY [2] (A)
6	266	0.254	13.48	4.12	2.00	8.28	168	1.30	125
4	420	0.254	21.28	6.72	2.00	10.88	258	0.826	170
2	665	0.254	33.70	8.58	2.00	12.74	389	0.522	232
1	836	0.254	42.36	9.77	2.20	14.31	487	0.415	270
1/0	1064	0.254	53.91	11.10	2.40	16.04	616	0.326	318
2/0	1323	0.254	67.04	12.47	2.40	17.41	756	0.262	369
3/0	1666	0.254	84.42	14.10	2.60	19.46	947	0.208	431
4/0	2107	0.254	106.76	15.97	2.80	21.73	1189	0.165	505
250	2499	0.254	126.63	17.40	2.80	23.16	1390	0.139	566
300	2989	0.254	151.45	19.02	3.00	25.20	1658	0.116	639
350	3458	0.254	175.22	20.61	3.20	27.21	1933	0.100	705

Notes: 1. DC Resistance calculated based on a 17.241 ohm-mm2/km copper resistivity.
2. Ampacity based on 5 minutes working cycles and 80% Load Factor.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.

WELDING Cable 600V, 105oC

Standard: BS 638. Arc welding power coerces equipment and accessories.
CENTELSA Specifications for HTS-C Cables

SIZE AWG	STRANDS	STRAND DIAMETER (mils)	SECTION (kcmil)	CONDUCTOR DIAMETER (mils)	INSULATION THICKNESS (mils)	DIAMETER OVER INSULATION (mils)	APPROX. TOTAL WEIGHT (lb/kft)	DC RESISTANCE AT 20°C [1] (ohm/kft)	AMPACITY [2] (A)
6	266	10.0	26.60	162	79	326	113	0.398	125
4	420	10.0	42.00	265	79	428	174	0.252	170
2	665	10.0	66.50	338	79	502	261	0.159	232
1	836	10.0	83.60	385	87	563	327	0.127	270
1/0	1064	10.0	106.40	437	94	631	414	0.0994	318
2/0	1323	10.0	132.30	491	94	685	508	0.0800	369
3/0	1666	10.0	166.60	555	102	766	636	0.0635	431
4/0	2107	10.0	210.70	629	110	856	799	0.0502	505
250	2499	10.0	249.90	685	110	912	934	0.0423	566
300	2989	10.0	298.90	749	118	992	1114	0.0354	639
350	3458	10.0	345.81	811	126	1071	1299	0.0306	705

Notes: 1. DC Resistance calculated based on a 10.371 ohm-cmil/ft copper resistivity.
2. Ampacity based on 5 minutes working cycles and 80% Load Factor.
3. Values herein indicated are approximated and are subject to normal manufacturing tolerances.