

COMMUNICATION & CONTROL CABLE MULTI-CONDUCTOR SHIELDED

UL, CSA, and NEC approved wires for two way circuits.



GENERAL INFO

In many electronic applications, two wires are required to complete circuits; these are often referred to as “balanced arrays” or “twisted pair” constructions. Paired cable designs find frequent application in circuits requiring circuit-to-circuit isolation from noise, minimization of capacitance imbalances and a reduction of EMI interference currents. Circuit separation is further enhanced in those designs employing individual circuit shields in concert with an overall shield. These shielding systems are available from General Cable in myriad combinations to suit the unique needs of the circuit designer. As with the multi-conductor designs, a wide array of insulating and jacketing materials are available to meet specific electronic applications. General Cable's Carol® Brand communication cable products are manufactured to meet the latest UL, CSA and NEC requirements and approvals.

CONSTRUCTION/DESIGN

Nominal outer diameter [inch]	Conductor strand count	Cable marking	Conductor category	AWG size
0.376		NA	Class 2 = stranded	12
0.335		NA	Class 2 = stranded	14
0.335		NA	Class 2 = stranded	14
0.307		NA	Class 2 = stranded	16
0.27	19/0117	NA	Class 2 = stranded	16
0.21	16/30	NA	Class 2 = stranded	18
0.26	16/30	NA	Class 2 = stranded	18
0.26	16/30	NA	Class 2 = stranded	18
				18
0.23	16/30	NA	Class 2 = stranded	18
0.24	7/28	NA	Class 2 = stranded	20
0.23	26/34	NA	Class 2 = stranded	20
0.22	7/28	NA	Class 2 = stranded	20
0.19	7/28	NA	Class 2 = stranded	20
				20
0.19	7/30	NA	Class 2 = stranded	22
0.17	7/30	NA	Class 2 = stranded	22
0.22	7/30	NA	Class 2 = stranded	22
0.14	7/30	NA	Class 2 = stranded	22
0.21	Solid	NA	Class 1 = solid	22
0.14	7/30	NA	Class 2 = stranded	22
0.15	7/30	NA	Class 2 = stranded	22
0.14	7/30	NA	Class 2 = stranded	22

PRODUCT DETAILS

Part number	Product name	Cable marking	AWG size	Core colors	Number of cores	Color outer jacket
C2539A.41.10	12/2C STRANDED TC SHIELDED CL2	NA	12	Black, Natural	2	Gray
C2539A.46.10	12/2C STRANDED TC SHIELDED CL2	NA	12	Black, Natural	2	Gray
C2539A.38.10	12/2C STRANDED TC SHIELDED CL2	NA	12	Black, Natural	2	Gray
C2538A.41.10M	14/2C STRANDED TC SHIELDED CL2	NA	14	Black, Natural	2	Gray
C2538A.41.10	14/2C STRANDED TC SHIELDED CL2	NA	14	Black, Natural	2	Gray
C2538A.38.10	14/2C STRANDED TC SHIELDED CL2	NA	14	Black, Natural	2	Gray
C2536A.41.10	16/2C STRANDED TC SHIELDED CM	NA	16	Black, Natural	2	Gray
C2536A.46.10	16/2C STRANDED TC SHIELDED CM	NA	16	Black, Natural	2	Gray
C2536A.38.10	16/2C STRANDED TC SHIELDED CM	NA	16	Black, Natural	2	Gray
C2895A.41.10	16/2C STRANDED TC SHIELDED CM	NA	16	White, Black	2	Gray

PRODUCT DETAILS

Part number	Product name	Cable marking	AWG size	Core colors	Number of cores	Color outer jacket
C2534A.30.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray
C2534A.41.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray
C2534A.44.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray
C2534A.46.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray
C2534A.18.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray
C2534A.38.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray
C2892A.41.10	18/2C STRANDED TC SHIELDED CM	NA	18	White, Red	2	Gray
C2686A.41.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Red	2	Gray
92970A.46.10	18/2C STRANDED TC SHIELDED CM		18	NA	2	Yellow
C2521A.41.10	18/2C STRANDED TC SHIELDED CM	NA	18	Black, Natural	2	Gray

PRODUCT DETAILS

Part number	Product name	Cable marking	AWG size	Core colors	Number of cores	Color outer jacket
C2555A.41.10	20/4C STRANDED TC SHIELDED CM	NA	20	Black, Natural, Red, Green	2	Gray
C1642A.41.10	20/2C STRANDED TC SHIELDED	NA	20	Black, White	2	Gray
C1642A.18.10	20/2C STRANDED TC SHIELDED	NA	20	Black, White	2	Gray
C2888A.41.10	20/2C STRANDED TC SHIELDED CM	NA	20	Black, Red	2	Gray
C2524A.41.10	20/2C STRANDED SHIELDED CM	NA	20	Black, Natural	2	Gray
C2524A.18.10	20/2C STRANDED SHIELDED CM	NA	20	Black, Natural	2	Gray
92984A.41.10	20/4C STRANDED TC SHIELDED CM		20	NA	4	Gray
C2518A.18.10	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Natural	2	Gray
C2514A.41.10	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Natural	2	Gray
C2514A.18.10	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Natural	2	Gray

PRODUCT DETAILS

Part number	Product name	Cable marking	AWG size	Core colors	Number of cores	Color outer jacket
C2677A.21.01	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Red	2	Black
C2677A.41.01	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Red	2	Black
C2516A.18.10M	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Red	2	Gray
C2676A.21.01	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Red	2	Black
C2516A.41.10	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Natural	2	Gray
C2516A.18.10	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Natural	2	Gray
C2517A.41.10	22/3C STRANDED TC SHIELDED CM	NA	22	Black, Red, Natural	2	Gray
C2516A.21.01	22/2C STRANDED TC SHIELDED CM	NA	22	Black, Red	2	Black

APPLICATION PROPERTIES

Part number	Product name	Conductor resistance at operation temperature [mOhm/ft]	Nominal insulation thickness [inch]	Nominal outer diameter [inch]	Nominal operation capacitance [pF/ft]	Shield DC resistance [mOhm/ft]	Nominal insulation thickness [mm]	Nominal outer diameter [mm]
C2539A.41.10	12/2C STRANDED TC SHIELDED CL2		0.032	0.376			0.81	9.55
C2539A.46.10	12/2C STRANDED TC SHIELDED CL2		0.032	0.376			0.81	9.55
C2539A.38.10	12/2C STRANDED TC SHIELDED CL2		0.032	0.376			0.81	9.55
C2538A.41.10M	14/2C STRANDED TC SHIELDED CL2		0.031	0.335			0.79	8.51
C2538A.41.10	14/2C STRANDED TC SHIELDED CL2		0.031	0.335			0.79	8.51
C2538A.38.10	14/2C STRANDED TC SHIELDED CL2		0.031	0.335			0.79	8.51
C2536A.41.10	16/2C STRANDED TC SHIELDED CM		0.031	0.307			0.79	7.8
C2536A.46.10	16/2C STRANDED TC SHIELDED CM		0.031	0.307			0.79	7.8
C2536A.38.10	16/2C STRANDED TC SHIELDED CM		0.031	0.307			0.79	7.8
C2895A.41.10	16/2C STRANDED TC SHIELDED CM		0.016	0.27			0.41	6.73

APPLICATION PROPERTIES

Part number	Product name	Conductor resistance at operation temperature [mOhm/ft]	Nominal insulation thickness [inch]	Nominal outer diameter [inch]	Nominal operation capacitance [pF/ft]	Shield DC resistance [mOhm/ft]	Nominal insulation thickness [mm]	Nominal outer diameter [mm]
C2534A.30.10	18/2C STRANDED TC SHIELDED CM		0.016	0.21			0.41	5.21
C2534A.41.10	18/2C STRANDED TC SHIELDED CM		0.016	0.21			0.41	5.21
C2534A.44.10	18/2C STRANDED TC SHIELDED CM		0.016	0.21			0.41	5.21
C2534A.46.10	18/2C STRANDED TC SHIELDED CM		0.016	0.21			0.41	5.21
C2534A.18.10	18/2C STRANDED TC SHIELDED CM		0.016	0.21			0.41	5.21
C2534A.38.10	18/2C STRANDED TC SHIELDED CM		0.016	0.21			0.41	5.21
C2892A.41.10	18/2C STRANDED TC SHIELDED CM		0.016	0.26			0.41	6.4
C2686A.41.10	18/2C STRANDED TC SHIELDED CM		0.016	0.26			0.41	6.4
92970A.46.10	18/2C STRANDED TC SHIELDED CM							
C2521A.41.10	18/2C STRANDED TC SHIELDED CM		0.018	0.23			0.46	5.82

APPLICATION PROPERTIES

Part number	Product name	Conductor resistance at operation temperature [mOhm/ft]	Nominal insulation thickness [inch]	Nominal outer diameter [inch]	Nominal operation capacitance [pF/ft]	Shield DC resistance [mOhm/ft]	Nominal insulation thickness [mm]	Nominal outer diameter [mm]
C2555A.41.10	20/4C STRANDED TC SHIELDED CM		0.016	0.24			0.41	5.94
C1642A.41.10	20/2C STRANDED TC SHIELDED		0.016	0.23			0.38	5.74
C1642A.18.10	20/2C STRANDED TC SHIELDED		0.016	0.23			0.38	5.74
C2888A.41.10	20/2C STRANDED TC SHIELDED CM		0.016	0.22			0.41	5.46
C2524A.41.10	20/2C STRANDED SHIELDED CM		0.016	0.19			0.41	4.65
C2524A.18.10	20/2C STRANDED SHIELDED CM		0.016	0.19			0.41	4.65
92984A.41.10	20/4C STRANDED TC SHIELDED CM							
C2518A.18.10	22/2C STRANDED TC SHIELDED CM		0.016	0.19			0.41	4.6
C2514A.41.10	22/2C STRANDED TC SHIELDED CM		0.016	0.17			0.41	4.24
C2514A.18.10	22/2C STRANDED TC SHIELDED CM		0.016	0.17			0.41	4.24

APPLICATION PROPERTIES

Part number	Product name	Conductor resistance at operation temperature [mOhm/ft]	Nominal insulation thickness [inch]	Nominal outer diameter [inch]	Nominal operation capacitance [pF/ft]	Shield DC resistance [mOhm/ft]	Nominal insulation thickness [mm]	Nominal outer diameter [mm]
C2677A.21.01	22/2C STRANDED TC SHIELDED CM		0.015	0.22			0.38	5.36
C2677A.41.01	22/2C STRANDED TC SHIELDED CM		0.015	0.22			0.38	5.36
C2516A.18.10M	22/2C STRANDED TC SHIELDED CM		0.008	0.14			0.2	3.48
C2676A.21.01	22/2C STRANDED TC SHIELDED CM		0.015	0.21			0.38	5.31
C2516A.41.10	22/2C STRANDED TC SHIELDED CM		0.008	0.14			0.2	3.48
C2516A.18.10	22/2C STRANDED TC SHIELDED CM		0.008	0.14			0.2	3.48
C2517A.41.10	22/3C STRANDED TC SHIELDED CM		0.008	0.15			0.2	3.36
C2516A.21.01	22/2C STRANDED TC SHIELDED CM		0.008	0.14			0.2	3.48

PRODUCT DETAILS

SPEC number	Part number	Product name	Country of origin	Distribution type	Stock item	Net weight	Weight unit
	C2539A.41.10	12/2C STRANDED TC SHIELDED CL2	US	Distribution products	MTS	1	LBS
	C2539A.46.10	12/2C STRANDED TC SHIELDED CL2	US	Distribution products	MTO	449	LBS
	C2539A.38.10	12/2C STRANDED TC SHIELDED CL2	US	Distribution products	MTO	43	LBS
	C2538A.41.10M	14/2C STRANDED TC SHIELDED CL2	US	Distribution products	MTO	63	LBS
	C2538A.41.10	14/2C STRANDED TC SHIELDED CL2	US	Distribution products	MTO	1	LBS
	C2538A.38.10	14/2C STRANDED TC SHIELDED CL2	US	Distribution products	MTO	1	LBS
	C2536A.41.10	16/2C STRANDED TC SHIELDED CM	US	Distribution products	MTS	1	LBS
	C2536A.46.10	16/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	237	LBS
	C2536A.38.10	16/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS
	C2895A.41.10	16/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS

PRODUCT DETAILS

SPEC number	Part number	Product name	Country of origin	Distribution type	Stock item	Net weight	Weight unit
	C2534A.30.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	23	LBS
	C2534A.41.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTS	1	LBS
	C2534A.44.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	61	LBS
	C2534A.46.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	114	LBS
	C2534A.18.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	13	LBS
	C2534A.38.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTS	1	LBS
	C2892A.41.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	41	LBS
	C2686A.41.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS
	92970A.46.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	114	LBS
	C2521A.41.10	18/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS

PRODUCT DETAILS

SPEC number	Part number	Product name	Country of origin	Distribution type	Stock item	Net weight	Weight unit
	C2555A.41.10	20/4C STRANDED TC SHIELDED CM	US	Distribution products	MTS	1	LBS
	C1642A.41.10	20/2C STRANDED TC SHIELDED	US	Distribution products	MTS	1	LBS
	C1642A.18.10	20/2C STRANDED TC SHIELDED	US	Distribution products	MTO	17	LBS
	C2888A.41.10	20/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	29	LBS
	C2524A.41.10	20/2C STRANDED SHIELDED CM	US	Distribution products	MTS	1	LBS
	C2524A.18.10	20/2C STRANDED SHIELDED CM	US	Distribution products	MTS	9	LBS
	92984A.41.10	20/4C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS
	C2518A.18.10	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	9	LBS
	C2514A.41.10	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTS	1	LBS
	C2514A.18.10	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTS	8	LBS

PRODUCT DETAILS

SPEC number	Part number	Product name	Country of origin	Distribution type	Stock item	Net weight	Weight unit
	C2677A.21.01	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	30	LBS
	C2677A.41.01	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS
	C2516A.18.10M	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	10	LBS
	C2676A.21.01	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	30	LBS
	C2516A.41.10	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTS	13	LBS
	C2516A.18.10	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	6	LBS
	C2517A.41.10	22/3C STRANDED TC SHIELDED CM	US	Distribution products	MTS	16	LBS
	C2516A.21.01	22/2C STRANDED TC SHIELDED CM	US	Distribution products	MTO	1	LBS

PRODUCT PACKAGING

Part number	Product name	Packaging unit	Packaging length	Packaging width	Packaging height	Put up
C2539A.41.10	12/2C STRANDED TC SHIELDED CL2	FOOT	16	16	12	1000 FT Reel
C2539A.46.10	12/2C STRANDED TC SHIELDED CL2	FOOT	16	16	12	5000 FT Reel
C2539A.38.10	12/2C STRANDED TC SHIELDED CL2	FOOT	14	14	12	500 FT Reel
C2538A.41.10M	14/2C STRANDED TC SHIELDED CL2	FOOT	22	20	1	1000 FT Reel
C2538A.41.10	14/2C STRANDED TC SHIELDED CL2	FOOT	12	12	7	1000 FT Reel
C2538A.38.10	14/2C STRANDED TC SHIELDED CL2	FOOT	12	12	7	500 FT Reel
C2536A.41.10	16/2C STRANDED TC SHIELDED CM	FOOT	12	12	7	1000 FT Reel
C2536A.46.10	16/2C STRANDED TC SHIELDED CM	FOOT	30	30	12	5000 FT Reel
C2536A.38.10	16/2C STRANDED TC SHIELDED CM	FOOT	12	12	10	500 FT Reel
C2895A.41.10	16/2C STRANDED TC SHIELDED CM	FOOT	12	12	13	1000 FT Reel

PRODUCT PACKAGING

Part number	Product name	Packaging unit	Packaging length	Packaging width	Packaging height	Put up
C2534A.30.10	18/2C STRANDED TC SHIELDED CM	FOOT	99	99	99	1000 FT Pull-Pac
C2534A.41.10	18/2C STRANDED TC SHIELDED CM	FOOT	12	12	9	1000 FT Reel
C2534A.44.10	18/2C STRANDED TC SHIELDED CM	FOOT	99	99	99	2500 FT Reel
C2534A.46.10	18/2C STRANDED TC SHIELDED CM	FOOT	20	20	13	5000 FT Reel
C2534A.18.10	18/2C STRANDED TC SHIELDED CM	FOOT	11	11	7	500 FT Spool
C2534A.38.10	18/2C STRANDED TC SHIELDED CM	FOOT	12	12	6	500 FT Reel
C2892A.41.10	18/2C STRANDED TC SHIELDED CM	FOOT	12	12	11	1000 FT Reel
C2686A.41.10	18/2C STRANDED TC SHIELDED CM	FOOT	12	12	11	1000 FT Reel
92970A.46.10	18/2C STRANDED TC SHIELDED CM	INCH	20	20	13	5000 FT Reel
C2521A.41.10	18/2C STRANDED TC SHIELDED CM	FOOT	12	12	10	1000 FT Reel

PRODUCT PACKAGING

Part number	Product name	Packaging unit	Packaging length	Packaging width	Packaging height	Put up
C2555A.41.10	20/4C STRANDED TC SHIELDED CM	FOOT	12	12	11	1000 FT Reel
C1642A.41.10	20/2C STRANDED TC SHIELDED	FOOT	12	12	11	1000 FT Reel
C1642A.18.10	20/2C STRANDED TC SHIELDED	FOOT	11	11	7	500 FT Spool
C2888A.41.10	20/2C STRANDED TC SHIELDED CM	FOOT	11	11	11	1000 FT Reel
C2524A.41.10	20/2C STRANDED SHIELDED CM	FOOT	12	12	7	1000 FT Reel
C2524A.18.10	20/2C STRANDED SHIELDED CM	FOOT	7	7	11	500 FT Spool
92984A.41.10	20/4C STRANDED TC SHIELDED CM	INCH	12	12	7	1000 FT Reel
C2518A.18.10	22/2C STRANDED TC SHIELDED CM	FOOT	7	7	11	500 FT Spool
C2514A.41.10	22/2C STRANDED TC SHIELDED CM	FOOT	12	12	7	1000 FT Reel
C2514A.18.10	22/2C STRANDED TC SHIELDED CM	FOOT	7	7	11	500 FT Spool

PRODUCT PACKAGING

Part number	Product name	Packaging unit	Packaging length	Packaging width	Packaging height	Put up
C2677A.21.01	22/2C STRANDED TC SHIELDED CM	FOOT	11	11	11	1000 FT Spool
C2677A.41.01	22/2C STRANDED TC SHIELDED CM	FOOT	12	12	8	1000 FT Reel
C2516A.18.10M	22/2C STRANDED TC SHIELDED CM	FOOT	7	7	7	500 FT Spool
C2676A.21.01	22/2C STRANDED TC SHIELDED CM	FOOT	11	11	11	1000 FT Spool
C2516A.41.10	22/2C STRANDED TC SHIELDED CM	FOOT	12	12	7	1000 FT Reel
C2516A.18.10	22/2C STRANDED TC SHIELDED CM	FOOT	7	7	7	500 FT Spool
C2517A.41.10	22/3C STRANDED TC SHIELDED CM	FOOT	12	12	7	1000 FT Reel
C2516A.21.01	22/2C STRANDED TC SHIELDED CM	FOOT	99	99	1	1000 FT Spool