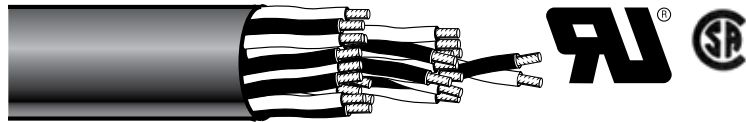


CABLED TWISTED PAIRS CONDUCTORS



NXP SERIES

- Twisted Pair Conductors
- Mil Spec, U.L. AWM

Recognized Style 2343 or 2344 and CSA Certified AWM II A/B*

National Wire & Cable Corporation manufactures a complete line of MINIATURE low voltage signal and control cable. Available as cabled pairs or cabled singles, with optional overall shield. Conductors are stranded tinned copper with .010" wall of vinyl primary insulation for use up to 105°C. per MIL-W-16878/1.

Insulated for 600 volts working voltage. (Also meets U.L. AWM Type 1061; 300 volt, 80°C.) All are coded using 10 standard colors plus stripes on white as per the Color Table in the National Wire Cable Designers Guide, page 7-13.

All conductors are planetary cabled and contra-helically laid for optimum flexibility, with a Mylar tape barrier under shields. Shielded cables have a tinned copper braid overall, of 85-90% coverage per MIL-C-7078; and braid angles below 40° for easy pushback.

The outer jacket is black abrasion-resistant 105°C. vinyl meeting MIL-L-631 Type F. All materials are self-extinguishing and fungus-resistant. All items are U.L. STYLE 2343 COMPUTER CABLE; rated 80°C (Higher temp. ratings apply for any non-U.L. service). Meets RS-423 for 20-24 gauges.

*U.L. and/or CSA certification furnished only when requested.
Standard Putups: 500 and 1000 ft. No-deposit reels.

TECHNICAL DATA (ALL CABLES)	
Insulation Breakdown Voltage:	Greater than 5000 volts AC RMS, 60cps.
Capacitance:	Nominal capacitance from a wire to all else in a cable ranges from 45 to 70 pf/ft at 1 kc, depending on gauge and position.
Insulation Leakage:	200 megohms/1000 feet minimum @ 500 VDC from conductor to all else in cable.
Sheath Leakage:	10 megohms/1000 feet minimum @ 500 VDC from shield or conductor group through sheath to ground.
Temperature Range:	Suitable for continuous use from -40°C to +105°C. (U.L. Service limited to +80°C)
Bending Characteristics:	All cables are suitable for flexing to a circle diameter of 6 cable diameters from +105°C to -20°C. Recommended flex diameter should be greater than 20 cable diameters for flexing at -40°C. For continuous flexing applications consult the factory.
Impedance: (24 AWG pairs)	Balanced: 87 ohms ± 5% Unbalanced: 52 ohms ± 5%

For color code of pairs, view the Color Table in the National Wire Cable Designers Guide, page 7-13.

MULTI-CONDUCTOR STOCK CABLED PAIRS Conductor sizes 24, 22 are 7 strand. All others are 19 strand.

NXP SERIES UNSHIELDED - 24, 22 and 20 AWG										
Part No.	No. of Pairs	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight lbs per 1000 ft KG/KM	
			Inches	MM	Inches	MM	Inches	MM		
NXP-524J	5	24	.044	1.1	.062	1.6	.339	8.6	55	82
NXP-724J	7	24	.044	1.1	.062	1.6	.352	9.0	66	99
NXP-1224J	12	24	.044	1.1	.062	1.6	.439	11.2	98	146
NXP-1524J	15	24	.044	1.1	.062	1.6	.489	12.4	116	173
NXP-1924J	19	24	.044	1.1	.062	1.6	.502	12.8	135	201
NXP-2724J	27	24	.044	1.1	.062	1.6	.589	15.0	180	267
NXP-3724J	37	24	.044	1.1	.062	1.6	.652	16.6	229	340
NXP-4824J	48	24	.044	1.1	.062	1.6	.734	18.6	285	424
NXP-6024J	60	24	.044	1.1	.062	1.6	.801	20.4	343	510
NXP-522J	5	22	.050	1.3	.062	1.6	.368	9.3	68	101
NXP-722J	7	22	.050	1.3	.062	1.6	.383	9.7	83	124
NXP-1222J	12	22	.050	1.3	.062	1.6	.482	12.2	126	187
NXP-1522J	15	22	.050	1.3	.062	1.6	.538	13.7	150	223
NXP-1922J	19	22	.050	1.3	.062	1.6	.553	14.0	177	263
NXP-2722J	27	22	.050	1.3	.062	1.6	.652	16.6	237	352
NXP-3722J	37	22	.050	1.3	.062	1.6	.723	18.4	305	454
NXP-4822J	48	22	.050	1.3	.062	1.6	.817	20.7	382	569
NXP-6022J	60	22	.050	1.3	.062	2.0	.929	23.6	498	741
NXP-520J	5	20	.058	1.5	.062	1.6	.406	10.3	91	135
NXP-720J	7	20	.058	1.5	.062	1.6	.424	10.8	114	169
NXP-1220J	12	20	.058	1.5	.062	1.6	.538	13.7	176	262
NXP-1520J	15	20	.058	1.5	.062	1.6	.604	15.3	212	315
NXP-1920J	19	20	.058	1.5	.062	1.6	.621	15.8	254	378
NXP-2720J	27	20	.058	1.5	.062	1.6	.735	18.7	345	513
NXP-3720J	37	20	.058	1.5	.062	1.6	.818	20.8	451	670
NXP-4820J	48	20	.058	1.5	.062	1.6	.963	24.5	605	901
NXP-6020J	60	20	.058	1.5	.062	1.6	1.051	26.7	734	1092

NXP SERIES OVERALL SHIELDED - 24, 22 and 20 AWG										
Part No.	No. of Pairs	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight lbs per 1000 ft KG/KM	
			Inches	MM	Inches	MM	Inches	MM		
NXP-524SJ	5	24	.044	1.1	.062	1.6	.359	9.1	74	110
NXP-724SJ	7	24	.044	1.1	.062	1.6	.372	9.5	87	129
NXP-1224SJ	12	24	.044	1.1	.062	1.6	.464	11.8	137	203
NXP-1524SJ	15	24	.044	1.1	.062	1.6	.514	13.1	159	236
NXP-1924SJ	19	24	.044	1.1	.062	1.6	.527	13.4	181	269
NXP-2724SJ	27	24	.044	1.1	.062	1.6	.614	15.6	234	349
NXP-3724SJ	37	24	.044	1.1	.062	1.6	.677	17.2	291	432
NXP-4824SJ	48	24	.044	1.1	.062	1.6	.759	19.3	356	529
NXP-6024SJ	60	24	.044	1.1	.062	1.6	.862	21.9	453	674
NXP-522SJ	5	22	.050	1.3	.062	1.6	.388	9.9	89	132
NXP-722SJ	7	22	.050	1.3	.062	1.6	.403	10.2	106	158
NXP-1222SJ	12	22	.050	1.3	.062	1.6	.507	12.9	169	251
NXP-1522SJ	15	22	.050	1.3	.062	1.6	.563	14.3	198	294
NXP-1922SJ	19	22	.050	1.3	.062	1.6	.578	14.7	227	338
NXP-2722SJ	27	22	.050	1.3	.062	1.6	.677	17.2	299	444
NXP-3722SJ	37	22	.050	1.3	.062	1.6	.748	19.0	375	558
NXP-4822SJ	48	22	.050	1.3	.062	1.6	.878	22.3	495	737
NXP-6022SJ	60	22	.050	1.3	.062	1.6	.954	24.2	588	874
NXP-520SJ	5	20	.058	1.5	.062	1.6	.426	10.8	115	171
NXP-720SJ	7	20	.058	1.5	.062	1.6	.444	11.3	140	208
NXP-1220SJ	12	20	.058	1.5	.062	1.6	.563	14.3	226	336
NXP-1520SJ	15	20	.058	1.5	.062	1.6	.629	16.0	267	397
NXP-1920SJ	19	20	.058	1.5	.062	1.6	.646	16.4	312	464
NXP-2720SJ	27	20	.058	1.5	.062	1.6	.761	19.3	416	619
NXP-3720SJ	37	20	.058	1.5	.062	1.6	.879	22.3	564	839
NXP-4820SJ	48	20	.058	1.5	.062	1.6	.988	25.1	699	1039
NXP-6020SJ	60	20	.058	1.5	.062	1.6	1.077	27.3	838	1246

CABLED TWISTED PAIRS - NXP Series



MULTI-CONDUCTOR STOCK CABLED PAIRS Conductor sizes 24, 22 are 7 strand. All others are 19 strand.

RoHS COMPLIANT PRODUCTS:

all RoHS products have the letter "R" written into the second position of the Part No.

NRXP SERIES UNSHIELDED - 24, 22 and 20 AWG											NRXP SERIES OVERALL SHIELDED - 24, 22 and 20 AWG										
Part No.	No. of Pairs	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight		Part No.	No. of Pairs	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight	
			Inches	MM	Inches	MM	Inches	MM	Inches	MM				Inches	MM	Inches	MM	Inches	MM	Inches	MM
NRXP-524J	5	24	.044	1.1	.062	1.6	.339	8.6	55	82	NRXP-524SJ	5	24	.044	1.1	.062	1.6	.359	9.1	74	110
NRXP-724J	7	24	.044	1.1	.062	1.6	.352	9.0	66	99	NRXP-724SJ	7	24	.044	1.1	.062	1.6	.372	9.5	87	129
NRXP-1224J	12	24	.044	1.1	.062	1.6	.439	11.2	98	146	NRXP-1224SJ	12	24	.044	1.1	.062	1.6	.464	11.8	137	203
NRXP-1524J	15	24	.044	1.1	.062	1.6	.489	12.4	116	173	NRXP-1524SJ	15	24	.044	1.1	.062	1.6	.514	13.1	159	236
NRXP-1924J	19	24	.044	1.1	.062	1.6	.502	12.8	135	201	NRXP-1924SJ	19	24	.044	1.1	.062	1.6	.527	13.4	181	269
NRXP-2724J	27	24	.044	1.1	.062	1.6	.589	15.0	180	267	NRXP-2724SJ	27	24	.044	1.1	.062	1.6	.614	15.6	234	349
NRXP-3724J	37	24	.044	1.1	.062	1.6	.652	16.6	229	340	NRXP-3724SJ	37	24	.044	1.1	.062	1.6	.677	17.2	291	432
NRXP-4824J	48	24	.044	1.1	.062	1.6	.734	18.6	285	424	NRXP-4824SJ	48	24	.044	1.1	.062	1.6	.759	19.3	356	529
NRXP-6024J	60	24	.044	1.1	.062	1.6	.801	20.4	343	510	NRXP-6024SJ	60	24	.044	1.1	.062	1.6	.862	21.9	453	674
NRXP-522J	5	22	.050	1.3	.062	1.6	.368	9.3	68	101	NRXP-522SJ	5	22	.050	1.3	.062	1.6	.388	9.9	89	132
NRXP-722J	7	22	.050	1.3	.062	1.6	.383	9.7	83	124	NRXP-722SJ	7	22	.050	1.3	.062	1.6	.403	10.2	106	158
NRXP-1222J	12	22	.050	1.3	.062	1.6	.482	12.2	126	187	NRXP-1222SJ	12	22	.050	1.3	.062	1.6	.507	12.9	169	251
NRXP-1522J	15	22	.050	1.3	.062	1.6	.538	13.7	150	223	NRXP-1522SJ	15	22	.050	1.3	.062	1.6	.563	14.3	198	294
NRXP-1922J	19	22	.050	1.3	.062	1.6	.553	14.0	177	263	NRXP-1922SJ	19	22	.050	1.3	.062	1.6	.578	14.7	227	338
NRXP-2722J	27	22	.050	1.3	.062	1.6	.652	16.6	237	352	NRXP-2722SJ	27	22	.050	1.3	.062	1.6	.677	17.2	299	444
NRXP-3722J	37	22	.050	1.3	.062	1.6	.723	18.4	305	454	NRXP-3722SJ	37	22	.050	1.3	.062	1.6	.748	19.0	375	558
NRXP-4822J	48	22	.050	1.3	.062	1.6	.817	20.7	382	569	NRXP-4822SJ	48	22	.050	1.3	.062	1.6	.878	22.3	495	737
NRXP-6022J	60	22	.050	1.3	.062	2.0	.929	23.6	498	741	NRXP-6022SJ	60	22	.050	1.3	.062	1.6	.954	24.2	588	874
NRXP-520J	5	20	.058	1.5	.062	1.6	.406	10.3	91	135	NRXP-520SJ	5	20	.058	1.5	.062	1.6	.426	10.8	115	171
NRXP-720J	7	20	.058	1.5	.062	1.6	.424	10.8	114	169	NRXP-720SJ	7	20	.058	1.5	.062	1.6	.444	11.3	140	208
NRXP-1220J	12	20	.058	1.5	.062	1.6	.538	13.7	176	262	NRXP-1220SJ	12	20	.058	1.5	.062	1.6	.563	14.3	226	336
NRXP-1520J	15	20	.058	1.5	.062	1.6	.604	15.3	212	315	NRXP-1520SJ	15	20	.058	1.5	.062	1.6	.629	16.0	267	397
NRXP-1920J	19	20	.058	1.5	.062	1.6	.621	15.8	254	378	NRXP-1920SJ	19	20	.058	1.5	.062	1.6	.646	16.4	312	464
NRXP-2720J	27	20	.058	1.5	.062	1.6	.735	18.7	345	513	NRXP-2720SJ	27	20	.058	1.5	.062	1.6	.761	19.3	416	619
NRXP-3720J	37	20	.058	1.5	.062	1.6	.818	20.8	451	670	NRXP-3720SJ	37	20	.058	1.5	.062	1.6	.879	22.3	564	839
NRXP-4820J	48	20	.058	1.5	.062	1.6	.963	24.5	605	901	NRXP-4820SJ	48	20	.058	1.5	.062	1.6	.988	25.1	699	1039
NRXP-6020J	60	20	.058	1.5	.062	1.6	1.051	26.7	734	1092	NRXP-6020SJ	60	20	.058	1.5	.062	1.6	1.077	27.3	838	1246