



COPPER INSTRUMENTATION CABLE

Overall Shield
FEP Insulated 400°F (200°C)

Applications

- Petrochemical Plants
- Utilities and Industrial Plants
- Pharmaceutical Industry
- Instrumentation Circuits
- Food Processing Plants
- Agricultural Industry
- FDA Approved Applications
- Suitable for 300 Volt Applications

Product Features

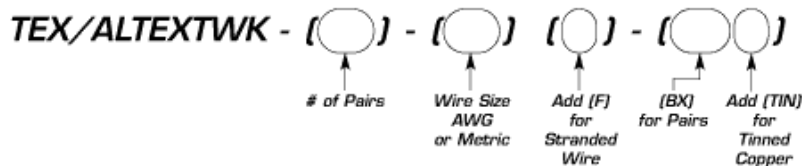
- Continuous Use -328F (-200C) ...to +400F (+200C)
- Excellent Chemical Resistance
- Excellent Electrical Properties
- Passes IEEE 383 Flame Test
- Passes VW-1 Flame Test
- Sunlight Resistant
- UL Listed CL2, CL3, PLTC
- ...or ITC Constructions are Also Available



Product Specifications

- Conductors: Solid or stranded, bare or tinned copper
10 to 30 AWG (2.6 to .25MM)
- Insulation: Nominal .010" (.25MM) flame retardant extruded fluoropolymer FEP
- Color Code: Black & white (other colors available)
- Construction: Twisted pairs
- Pair Identification: Numbered polyester tapes
- Communication Wire: 22 AWG (.61MM) 7-strand copper insulated with nominal .010" (.25MM) orange FEP (4 pair and larger)
- Cable Shield: .002" (.05MM) aluminum/polyester tape, 25% overlap
- Cable Drain Wire: 20 AWG (.91MM) 7-strand tinned copper
- Outer Jacket: Flame retardant extruded fluoropolymer FEP
- (ETFE +300F (+150C) and PFA +500F (+260C) are also available)

Ordering Code



Wire Size	Numbers of Pairs	Outer Jacket Thickness		Outer Diameter		Bend Radius		Pull Tension		Net Weight	
		inches	(MM)	inches	(MM)	inches	(MM)	LB	KG	LB/MF	KG/KM
16 AWG (1.47MM)	1	.015	(0.38)	.202	(5.1)	1.2	(32)	54	(25)	37	(55)
	2	.020	(0.51)	.364	(9.2)	2.2	(55)	90	(41)	77	(115)
7-Strand	4	.020	(0.51)	.428	(10.9)	2.6	(65)	172	(78)	133	(198)
	6	.025	(0.64)	.528	(13.4)	3.2	(80)	254	(115)	195	(290)
	8	.025	(0.64)	.575	(14.6)	3.5	(88)	336	(153)	250	(372)
	10	.025	(0.64)	.682	(17.3)	4.1	(104)	418	(190)	307	(457)

	12	.025	(0.64)	.688	(17.5)	4.2	(105)	500	(227)	367	(546)
	16	.025	(0.64)	.780	(19.8)	4.7	(119)	664	(302)	473	(704)
	20	.030	(0.76)	.850	(21.6)	5.1	(130)	828	(376)	579	(862)
	24	.030	(0.76)	.951	(24.2)	5.1	(145)	992	(451)	690	(1027)
	36	.030	(0.76)	1.068	(27.1)	6.4	(162)	1484	(675)	999	(1487)
18 AWG (1.2MM) 7-Strand	1	.015	(0.38)	.178	(4.5)	1.1	(27)	34	(15)	29	(43)
	2	.020	(0.51)	.326	(8.3)	2.0	(50)	60	(27)	55	(82)
	4	.020	(0.51)	.382	(9.7)	2.3	(58)	112	(51)	92	(137)
	6	.025	(0.64)	.471	(12.0)	2.8	(72)	164	(75)	129	(192)
	8	.025	(0.64)	.513	(13.0)	3.1	(78)	216	(98)	169	(251)
	10	.025	(0.64)	.606	(15.4)	3.6	(92)	268	(121)	201	(299)
	12	.025	(0.64)	.611	(15.5)	3.7	(93)	320	(145)	239	(356)
	16	.025	(0.64)	.683	(17.4)	4.1	(104)	424	(193)	314	(467)
	20	.030	(0.76)	.755	(19.2)	4.5	(115)	528	(240)	381	(567)
	24	.030	(0.76)	.843	(21.4)	5.1	(128)	632	(287)	451	(671)
	36	.030	(0.76)	.946	(24.0)	5.7	(144)	944	(429)	642	(955)
	50	.030	(0.76)	1.121	(28.5)	6.7	(171)	1308	(595)	872	(1298)
20 AWG (0.91MM) 7-Strand	1	.015	(0.38)	.158	(3.8)	1.0	(25)	21	(10)	20	(30)
	2	.015	(0.38)	.270	(6.9)	1.6	(41)	40	(18)	40	(60)
	4	.020	(0.51)	.328	(8.3)	2.0	(50)	72	(33)	70	(104)
	6	.020	(0.51)	.392	(10.0)	2.4	(60)	104	(47)	96	(143)
	8	.020	(0.51)	.428	(10.9)	2.6	(65)	136	(62)	119	(177)
	10	.025	(0.64)	.514	(13.1)	3.0	(76)	168	(76)	153	(228)
	12	.025	(0.64)	.519	(13.2)	3.1	(77)	200	(91)	175	(260)
	16	.025	(0.64)	.579	(14.7)	3.5	(88)	264	(120)	222	(330)
	20	.025	(0.64)	.630	(16.0)	3.8	(93)	328	(149)	269	(400)
	24	.030	(0.76)	.713	(18.1)	4.3	(109)	392	(178)	327	(487)
	36	.030	(0.76)	.799	(20.3)	4.8	(122)	584	(265)	462	(687)
	50	.030	(0.76)	.944	(24.0)	5.7	(144)	808	(367)	623	(927)

The products referenced above represent the most popular constructions. Other constructions can be manufactured to meet individual specification and application requirements. Contact factory for additional information.

Electrical Characteristics

Insulation passes 3000 V ac spark test.

Completed cable passes a dielectric test of 1300 V dc for 60 seconds, conductor to conductor and conductor to shield.



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A Marmon Wire & Cable/Berkshire Hathaway Company