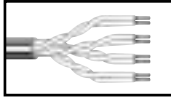


DataTwist 350 Patch Cables



Description
UL AWM/Style
24 Gage Non-Plenum

Product Description:
24 AWG stranded
tinned copper, poly-
olefin insulated, 4
twisted pairs-each
with adjoined singles,
PVC jackets Bonded
Pairs in Red, Yellow,
Green, Orange, Blue,
Purple, or Light Gray,
sequentially marked at
two foot intervals.

Belden Part No. UL NEC (UL) CEC Type	No. of Pairs	Standard Lengths		Std. Unit Lbs ea.	Insulation Thickness		Nom. O.D.		Max. DCR 100m)	Max. DCR (ohms/ %	Max. Cap Unbal. (pF/	Freq. (MHz) Unbal.	Max. Attenuation (dB/ 100 m)	Min. NEXT (db)	Min. ACR (db/ 100 m)	Min. ELFEXT (dB/ 100 m)	Imp. (ohms)	Min. RL (dB)
		ft	m		Inch	mm	Inch	mm										
1752A NEC CM CEC CM	4	1000	304.8	21.1	0.009	0.229	0.22	5.57	9	5	66	4 8 10 16 25 31.25 62.5 100 155 200 310 350	4.8 6.8 7.7 9.8 12.4 13.9 20.2 26.1 32.2 38.4 49.5 53.2	53 48 47 44 41 40 35 32 30 28 25 24	51.2 41.2 39.3 34.2 28.6 26.1 14.9 5.9	48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 26.9 14.7 10.9 9.9	100±12% 100±12% 100±12% 100±12% 100+- 15% 100+- 15% 100+- 15% 100+- 15% 100+-18% 100+-18% 100+-20% 100+-22%	23 23 23 23 22 21 21 21 19 19 17 16

Fit Shrinkable Tubing - Alpha



Irradiated Polyolefin

Applications: Wire harness; Cable/connector protection; Insulation of terminals; Wire splices. **Operating Temperature:** -55C to 135C.
Shrinkage Ratio: Approximately 2 to 1 at 121°C. **Physical Properties:** Tensile Strength: 1800 psi, (127 kg/cm2); Ultimate Elongation: 400%; Longitudinal Shrinkage: +5%; Specific Gravity: 1.35; **Flammability:** Self Extinguishing. **Specifications:** MIL-I-23053/5B; UL Standard 224 (except for Clear); CSA Standard 198 (except for Clear). **Electrical Properties:** Dielectric Strength: 500V/mil (197 kv/cm). **Chemical Properties:** Corrosive Effect: Passes copper stability test; Fungus Resistance: No Growth.

Alpha Part No.	Minimum Supplied I.D.		Maximum Recovered I.D.		Nom. Recovered Wall Thickness		4 Ft. Total Ftg.	Standard Packages			No. Cut Pieces 6 Inch	No. Cut Pieces 1/2" or 1"
	Inches	mm	Inches	mm	Inches	mm		Lengths Tot. Ftg.	Spools Tot. Ftg.	No. Cut Pieces 1/2" or 1"		
FIT-221-3/64	0.046	1, 17	0.023	0, 58	0.016	0, 41	100	1000	-	-	40	1000
FIT-221-1/16	0.063	1, 60	0.031	0, 78	0.017	0, 43	100	1000	100	70	36	1000
FIT-221-3/32	0.093	2, 36	0.046	1, 17	0.02	0, 50	100	500	100	65	32	1000
FIT-221-1/8	0.125	3, 18	0.062	1, 58	0.02	0, 50	100	500	100	60	28	1000
FIT-221-3/16	0.187	4, 75	0.093	2, 36	0.02	0, 50	100	500	100	50	24	1000
FIT-221-1/4	0.25	6, 35	0.125	3, 18	0.025	0, 63	100	250	100	40	20	1000
FIT-221-3/8	0.375	9, 53	0.187	4, 75	0.025	0, 63	100	200	50	35	16	1000
FIT-221-1/2	0.5	12, 70	0.25	6, 35	0.025	0, 63	20	150	50	32	14	-
FIT-221-3/4	0.75	19, 10	0.375	9, 53	0.03	0, 76	20	250	50	24	12	-
FIT-221-1	1	25, 40	0.5	12, 70	0.035	0, 88	20	250	50	16	8	-
FIT-221-1-1/2	1.5	38, 10	0.75	19, 10	0.04	1, 02	20	125	-	-	5	-
FIT-221-2	2	50, 80	1	25, 40	0.05	1, 27	20	125	-	-	3	-
FIT-221-3	3	76, 20	1.5	38, 10	0.05	1, 27	8	100	-	-	2	-
FIT-221-4	4	101, 60	2	50, 80	0.055	1, 40	8	50	-	-	1	-

Packaged Assortment 6" length

Part#	Tubing Size Range	Lengths Per Box
FIT-221-MS-1	3/64"-3/6" (5 Sizes)	6 per Size (30 Lengths)
FIT-221-MS-2	1/4"-3/4" (4 Sizes)	4 per Size (16 Lengths)

Flexible Irradiated PVC **Applications:** Use with Irradiated PVC Wire/Cable; Wire harness; Cable/connector protection; Insulation of terminals; Wire splices. **Operating Temperature:** -35°C TO 105°C. **Shrinkage Ratio:** approximately 2 to 1 at 100°C. **Tensile Strength:** 2600psi, (183 kg/cm 2). **Ultimate Elongation:** 250%. **Longitudinal Shrinkage:** 10%. **Specific Gravity:** 1.40 **Flammability:** Self-Extinguishing. **Specifications:** MIL-1-23053/2C, Class 1 (Inactive Military Specification), UL Standard 224, CSA Standard 198. **Passes UL VW-1 Flame Test.** **Passes CSA OFT Flame Test.** **Chemical Properties:** Corrosive Effect: Meets requirements of MIL-I-631; **Fungus Resistance:** No Growth (MIL-I-7444); **Water Absorption:** 0 to 1 % Max. 25 Hrs. at 250°C.

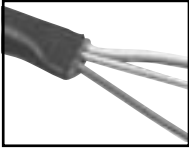
Packaged Assortment 6" length

Part#	Tubing Size Range	Lengths Per Box
FIT-105-MS-1 (6 sizes)	3/64" - 1/4" per size (60 Lengths)	10 Lengths
FIT-105-MS-2	3/8" - 1" (4 sizes) per size (40 Lengths)	10 Lengths

Alpha Part No. and Size	Minimum Supplied I.D.		Maximum Rec. I.D.		Nom. Rec. Thickness		Tot. Ftg.	Spools Tot. Ftg.	Tot. Ftg.	Tot. Foot.
	Inches	mm	Inches	mm	Inches	mm				
FIT-105-3/64	0.046	1, 17	0.023	0, 58	0.02	0, 50	1000	500	100	25
FIT-105-1/16	0.062	1, 58	0.031	0, 78	0.02	0, 50	1000	500	100	25
FIT-105-3/32	0.093	2, 36	0.046	1, 17	0.02	0, 50	1000	100	25	-
FIT-105-1/8	0.125	3, 18	0.062	1, 58	0.025	0, 63	1000	100	25	-
FIT-105-3/16	0.187	4, 75	0.093	2, 36	0.025	0, 63	1000	100	25	-
FIT-105-1/4	0.25	6, 35	0.125	3, 18	0.025	0, 63	1000	100	25	-
FIT-105-3/8	0.375	9, 53"	0.187	4, 75	0.03	0, 76	500	100	25	-
FIT-105-1/2	0.5	12, 70	0.25	6, 35	0.03	0, 76	250	100	25	-
FIT-105-3/4	0.75	19, 10	0.375	9, 53	0.035	0, 88	250	100	25	-
FIT-105-1	1	25, 40	0.5	12, 70	0.04	1, 02	250	100	25	-
FIT-105-1-1/2	1.5	38, 10	0.75	19, 10	0.045	1, 14	100	25	-	-
FIT-105-2	2	50, 80	1	25, 40	0.05	1, 27	100	50	25	-



3 to 1 Shrink Ratio, Medium Wall, Polyolefin



Operating Temperature: -55°C TO 110°C **Shrinkage Ratio:** Approximately 3 to 1 at 125°C; **Physical Properties:** Tensile Strength: 1300 psi, (92 kg/cm²); Ultimate Elongation: 300%; **Longitudinal Shrinkage:** 15%; Heat Agent: (168 Hrs. at 150°C) No dripping, cracking or flowing; Low Temperature Brittleness: 4 Hrs. at -55°C, No cracking. **Flammability:** Self-Extinguishing (Outer jacket only). **Electrical Properties:** Dielectric Strength: 350V/mil (138 kV/cm). **Chemical Properties:** Corrosive Effect: Non-Corrosive; Fungus Resistance: No Growth; Water Absorption: 0.5% Max. **Specifications:** MIL-I-23053/4C, Class 3.

Alpha Part No. and Size	Minimum Supplied I.D.		Maximum Rec. I.D.		Total Wall		Melttable Wall		4 Ft. Lgths. Total Ftg.	No. Cut Pieces 6 Inch
	Inches	mm	Inches	mm	Inches	mm	Inches	mm		
FIT-321-1/8	0.12	3, 05	0.04	1, 02	0.04	1, 02	0.02	0, 50	100	28
FIT-321-1/4	0.24	6, 10	0.08	2, 03	0.04	1, 02	0.02	0, 50	100	20
FIT-321-1/2	0.47	11, 90	0.16	4, 06	0.07	1, 75	0.03	0, 76	20	14
FIT-321-1	0.94	23, 90	0.32	8, 13	0.1	2, 54	0.04	1, 02	20	8
FIT-321-1-1/2	1.57	39, 90	0.51	13, 00	0.1	2, 54	0.04	1, 02	20	5

Packaged Assortment 6" length

Part#	Tubing Size Range	Lengths Per Box
FIT-321-MS-1	1/8" - 1" (4 sizes)	5 per size (20 Lengths)

Semi-Rigid Irradiated Polyolefin



Operating Temperature: -55°C TO 135°C. **Shrinkage Ratio:** Approximately 2 to 1 at 135°C. **Physical Properties:** Tensile Strength: 2500 psi, (176 kg/cm²); Ultimate Elongation: 300%; Longitudinal Shrinkage: 5% **Specific Gravity:** 1.35 **Flammability:** Self-Extinguishing; **Specific Gravity:** 1.35. **Electrical Properties:** Dielectric Strength: 800V/mil (315 kV/cm). **Chemical Properties:** Corrosive Effect: Non-Corrosive; **Fungus Resistance:** No Growth; Water Absorption: 0.5%. **Specifications:** MIL-I-23053/6C, Class 1, 2; UL Standard 224 (except for clear); CSA Standard 198 (black only).

Alpha Part No. and Size	Minimum Supplied I.D.		Maximum Rec. I.D.		Nom. Rec. Wall Thickness		4 Ft. Total	Std. Pkg. No. Cut Pieces
	Inches	mm	Inches	mm	Inches	mm		
FIT-295-3/64	0.046	1, 17	0.023	0, 58	0.02	0, 50	100	40
FIT-295-1/16	0.063	1, 60	0.032	0, 81	0.02	0, 50	100	36
FIT-295-3/32	0.093	2, 36	0.045	1, 14	0.02	0, 50	100	32
FIT-295-1/8	0.125	3, 18	0.063	1, 60	0.02	0, 50	100	28
FIT-295-3/16	0.187	4, 75	0.093	2, 36	0.025	0, 63	100	24
FIT-295-1/4	0.25	6, 35	0.125	3, 18	0.025	0, 63	100	20
FIT-295-3/8	0.375	9, 53	0.187	4, 75	0.03	0, 76	100	16
FIT-295-1/2	0.5	12, 70	0.25	6, 35	0.03	0, 76	20	14

Heat/Chemical Resistant FPE Teflon



Operating Temperature: -67° TO 204°C. **Shrinkage Ratio:** Approximately 1.2 to 1 at 176°C. **Physical Properties:** Tensile Strength: 3100 psi (220 kg/cm); Ultimate Elongation: 300%; **Longitudinal Shrinkage:** 10%; **Specific Gravity:** 2.17; **Flammability:** Self-Extinguishing. **Chemical Properties:** Corrosive Effect: Non-Corrosive; Fungus resistance: No Growth; Water Absorption: 0.01%; **Chemical Resistance:** All chemicals at room temperature. **Electrical Properties:** Dielectric Strength: 2000V/mil (787 kV/cm). **Specifications:** MIL-I-23053/11B, Class 1.

HSTTV Heat Shrink

Product Description: Provides protection for fiber and cable shields; low shrink temperature; very flexible; helps maintain bend radius.

Alpha Part No.	Minimum Supplied I.D.		Maximum Recovered I.D.		Nom. Rec. Wall Thickness		4 Ft. Lengths Total Ftg.	2 Ft. Lengths Total Ftg.
	Inches	mm	Inches	mm	Inches	mm		
FIT-400-24	0.031	0, 79	0.027	0, 68	0.008	0, 20	100	—
FIT-400-22	0.036	0, 91	0.032	0, 81	0.008	0, 20	100	—
FIT-400-20	0.045	1, 14	0.039	0, 99	0.008	0, 20	100	—
FIT-400-18	0.06	1, 52	0.049	1, 25	0.008	0, 20	100	—
FIT-400-16	0.075	1, 90	0.061	1, 55	0.009	0, 22	100	—
FIT-400-14	0.092	2, 33	0.072	1, 83	0.009	0, 22	100	—
FIT-400-12	0.115	2, 92	0.089	2, 26	0.009	0, 22	100	—
FIT-400-10	0.141	3, 58	0.114	2, 90	0.01	0, 25	100	—
FIT-400-9	0.158	4, 01	0.124	3, 15	0.01	0, 25	100	—
FIT-400-8	0.18	4, 57	0.143	3, 63	0.01	0, 25	100	—
FIT-400-7	0.197	5, 00	0.158	4, 01	0.011	0, 27	100	—
FIT-400-6	0.225	5, 72	0.18	4, 57	0.011	0, 27	100	—
FIT-400-5	0.248	6, 29	0.198	5, 03	0.011	0, 27	—	100
FIT-400-4	0.29	7, 36	0.226	5, 74	0.011	0, 27	—	100
FIT-400-3	0.31	7, 87	0.249	6, 33	0.011	0, 27	—	100
FIT-400-2	0.365	9, 27	0.28	7, 11	0.012	0, 30	—	100
FIT-400-1	0.4	10, 20	0.311	7, 90	0.012	0, 30	—	100
FIT-400-0	0.44	11, 22	0.349	8, 87	0.012	0, 30	—	100

Panduit Part No.	Nominal Diameter In. (mm)	Minimum Expanded I.D. In. (mm)	Maximum Recovered I.D. In. (mm)	Nominal Recovered Wall Thickness In. (mm)	Length	Std. Pkg. Qty.	Std. Ctn. Qty.
HSTTV05-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV06-Y	1/16 (1.6)	.063 (1.6)	.031 (0.8)	.020 (0.5)	26 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV06-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV09-Y	3/32 (2.4)	.093 (2.4)	.046 (1.2)	.020 (0.5)	24 Pcs., 6" (152.4mm)	1 Pkg.	10 Pkg.
HSTTV09-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV12-Y	1/8 (3.2)	.125 (3.2)	.062 (1.6)	.020 (0.5)	20 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV12-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV19-Y	3/16 (4.8)	.187 (4.8)	.093 (2.4)	.020 (0.5)	18 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV19-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV25-Y	1/4 (6.4)	.250 (6.4)	.125 (3.2)	.025 (0.6)	14 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV25-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV38-Y	3/8 (9.5)	.375 (9.5)	.187 (4.8)	.025 (0.6)	12 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV38-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV50-Y	1/2 (12.7)	.500 (12.7)	.250 (6.4)	.025 (0.6)	10 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV50-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV75-Y	3/4 (19.0)	.750 (19.0)	.375 (9.5)	.030 (0.8)	8 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV75-Q					1 Reel, 25' (7.6 M)	1 Reel	10 Reels
HSTTV100-Y	1 (25.4)	1.00 (25.4)	.500 (12.7)	.035 (0.9)	6 Pcs., 6" (152.4 mm)	1 Pkg.	10 Pkg.
HSTTV100-Q					1 Reel, 25' (7.6 M)	1 Reel	2 Reels

