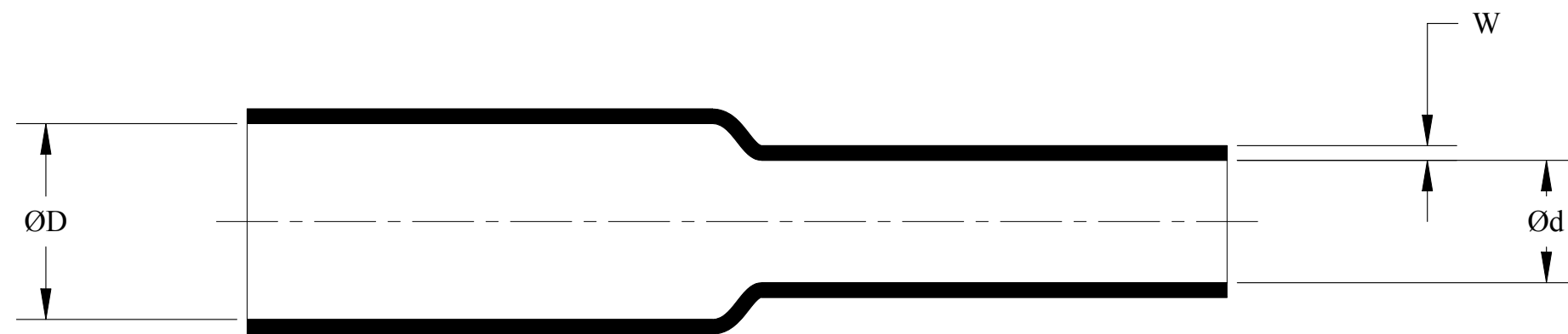
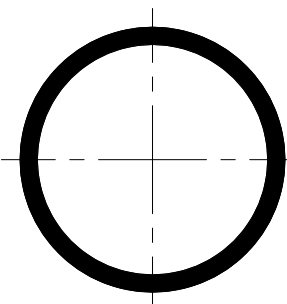


REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	G	INITIAL RELEASE	15JUL2021	GCM	SH



Expanded as supplied

Fully recovered after heating

- EXTRUDED TUBING IS FABRICATED FROM A MODIFIED POLYOLEFIN, CROSS LINKED BY IRRADIATION AND EXPANDED
- EXPANDED TUBING WILL RETURN TO RECOVERED SIZE UPON BEING SUBJECTED TO TEMPERATURES IN EXCESS OF 110°C
- TUBING SHALL BE HOMOGENOUS AND ESSENTIALLY FREE FROM FLAWS, DEFECTS, PINHOLES, SEAMS, CRACKS OR INCLUSIONS
- TUBING TO BE FABRICATED FROM MATERIALS WHICH MEET THE REQUIREMENTS OF U.S. PHARMACOPEIA CLASS V1 PLASTICS
- 5 SAMPLE PREPARATION AND EXTRACTION IS PER USP XXII. METALS ANALYSIS MAY BE COLORIMETRIC AS DESCRIBED IN USP XXII OR BY EQUIVALENT QUANTITATIVE ANALYTICAL METHOD
- NOT ALL PARTS LISTED IN TABLE

Size	As Supplied		Recovered			
	Inside Diameter (D)		Inside Diameter(d)		Wall Thickness (W)	
	in	mm	in	mm	in	mm
1/32	.040±.005	1.02±0.13	.013±.002	0.33±0.05	.010±.002	0.25±0.08
3/64	.055±.005	1.40±0.13	.020±.003	0.51±0.08	.016±.003	0.41±0.08
1/16	.072±.005	1.83±0.13	.027±.004	0.69±0.10	.017±.003	0.43±0.08
3/32	.107±.008	2.72±0.20	.042±.004	1.07±0.10	.020±.003	0.51±0.08
1/8	.140±.010	3.56±0.25	.057±.005	1.45±0.13	.020±.003	0.51±0.08
3/16	.205±.010	5.21±0.25	.086±.007	2.18±0.18	.020±.003	0.51±0.08
1/4	.275±.015	6.99±0.38	.117±.008	2.97±0.20	.025±.003	0.64±0.08
3/8	.415±.020	10.54±0.5	.171±.016	4.34±0.41	.025±.003	0.64±0.08

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 15JUL2021	TE Connectivity Ltd.		
DIMENSIONS: INCHES		CHK S. HSU 15JUL2021			
		APVD S. HSU 15JUL2021	NAME MT-LWA STANDARD EXPANDED TUBING PLATFORM		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	-		
0 PLC ± -		APPLICATION SPEC	-		
1 PLC ± .1		WEIGHT	-		
2 PLC ± .01		CUSTOMER DRAWING	SIZE A3	CAGE CODE 00779	DRAWING NO C-112-0114-00
3 PLC ± .005		RESTRICTED TO	-		
4 PLC ± .0005		SCALE	NONE		
ANGLES ± -		SHEET	1 OF 3		
MATERIAL		REV	G		
FINISH					

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

MATERIAL QUALIFICATION PROPERTIES

PROPERTY	UNIT	REQUIREMENT	TEST METHOD
DIMENSIONS	INCHES (mm)	SEE CHART	
LONGITUDINAL CHANGE	PERCENT	+0, -10 MAXIMUM	ASTM D 2671
CONCENTRICITY AS SUPPLIED	PERCENT	70 MINIMUM (2:1 EXP RATIO) 60 MINIMUM (3:1 EXP RATIO)	ASTM D 2671
TENSILE STRENGTH	PSI (MPa)	1500 MINIMUM (10.3)	ASTM D 2671,
ULTIMATE ELONGATION	PERCENT	200 MINIMUM	20"/MINUTE
2% SECANT MODULUS (EXPANDED)	PSI (MPa)	2.5 x 10 ⁴ MAXIMUM (172)	ASTM D 2671
HEAT RESISTANCE 168 HOURS AT 175°C (347°F) FOLLOWED BY TEST FOR: ULTIMATE ELONGATION	PERCENT	100 MINIMUM	ASTM D 2671, 20"/MINUTE
ELECTRICAL DIELECTRIC STRENGTH	VOLTS/MIL (kV/mm)	500 MINIMUM (19.7)	ASTM D 2671
DIELECTRIC WITHSTAND 3000V, 60Hz	sec	60 MINIMUM	ASTM D 2671
CHEMICAL FLUID RESISTANCE 24 HOURS AT 23±3°C (73±5°F) ISOPROPYL ALCOHOL 5% SALINE SOLUTION CIDEX* FOLLOWED BY TESTS FOR: DIELECTRIC STRENGTH	VOLTS/MIL (kV/mm)	400 MINIMUM (15.7)	ASTM D 2671
TENSILE STRENGTH	PSI (MPa)	1000 MINIMUM (6.9)	ASTM D 2671
HEAVY METALS ANALYSIS CADMIUM MERCURY LEAD BISMUTH ANTIMONY	PPM	1 MAXIMUM (TOTAL OF ALL METALS)	USP XXII PHYSICOCHEMICAL TESTS-PLASTIC 5

*TRADEMARK OF JOHNSON & JOHNSON COMPANY

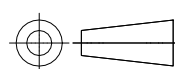
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 15JUL2021	STE TE Connectivity Ltd.	
		CHK S. HSU 15JUL2021		
DIMENSIONS: INCHES		APVD S. HSU 15JUL2021	NAME MT-LWA STANDARD EXPANDED TUBING PLATFORM	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	-	
0 PLC ± -		APPLICATION SPEC	-	
1 PLC ± .1		WEIGHT	-	
2 PLC ± .01		CUSTOMER DRAWING	SCALE	NONE
3 PLC ± .005			SHEET	2 OF 3
4 PLC ± .0005			REV	G
ANGLES ± -				
MATERIAL	FINISH		SIZE	A3
			CAGE CODE	00779
			DRAWING NO	C-112-0114-00
			RESTRICTED TO	-

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
-	-	SEE SHEET 1	-	-	-

EXPANSION RATIO DIMENSIONS (MIN/MAX)

STANDARD SIZES	AS SUPPLIED		RECOVERED			
	INSIDE DIAMETER MINIMUM (D)		INSIDE DIAMETER MAXIMUM (d)		WALL THICKNESS (W)	
SIZE	INCH	mm	INCH	mm	INCH	mm
.032	.032	0.81	.011	0.28	.010±.002	0.25±0.05
.047	.053	1.35	.013	0.33	.012±.002	0.31±0.05
.063	.063	1.60	.021	0.53	.016±.002	0.41±0.05
.078	.078	1.98	.025	0.64	.016±.002	0.41±0.05
.094	.094	2.39	.031	0.79	.020±.003	0.51±0.08
.110	.110	2.79	.034	0.86	.020±.003	0.51±0.08
.125	.125	3.18	.042	1.07	.020±.003	0.51±0.08
.188	.188	4.78	.063	1.60	.020±.003	0.51±0.08
.250	.250	6.35	.083	2.11	.025±.003	0.64±0.08
.375	.375	9.53	.125	3.18	.025±.003	0.64±0.08

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN GANESH C M 15JUL2021	STE TE Connectivity Ltd.			
DIMENSIONS: INCHES		CHK S. HSU 15JUL2021				
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD S. HSU 15JUL2021	NAME MT-LWA STANDARD EXPANDED TUBING PLATFORM			
 0 PLC ± - 1 PLC ± .1 2 PLC ± .01 3 PLC ± .005 4 PLC ± .0005 ANGLES ± -		PRODUCT SPEC -	-			
APPLICATION SPEC		-	-			
MATERIAL -	FINISH -	WEIGHT -	SIZE A3	CAGE CODE 00779	DRAWING NO C-112-0114-00	RESTRICTED TO -
CUSTOMER DRAWING			SCALE NONE	SHEET 3 OF 3	REV G	