

Customer Specification

PART NO. MP10104RW

Construction

				Diameters (In)	1	
1) Component 1	4 X 1 COND	4 X 1 COND				
a) Conductor	10 (105/30) AWG Bare Co	10 (105/30) AWG Bare Copper				
b) Insulation	0.022" Wall, Nom. PVC/ 0.	005" Wall NYLO	N	0.172		
(1) Print	ALPHANUMERIC NUMBER	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND				
(2) Color Code	2) Color Code Alpha Wire Color Code RX					
Cond	Color	Cond	Color	Cond	Color	
1	GREEN/YELLOW	3	RED#2			
2	RED#1	4	RED#3			
2) Cable Assembly	4 Components Cabled					
a) Twists:	2.1 Twists/foot (min)					
b) Orientation:	Components to be arranged from OUTSIDE LAYER to INSIDE LAYER		′ER			
c) Core Wrap	REMAY Tape, 25% Overlap, Min.					
3) Jacket	0.065" Wall, Nom.,TPE		0.561+/- 0.026	0.561+/- 0.026		
a) Color(s)	Yellow, Orange, Black					
b) Print	ALPHA WIRE-* P/N MP10104RW 4C 10 AWG (5.32mm2) THWN-2 SERIES P (UL) TYPE TC-ER 90C WET/DRY 600V OIL RES I/II SUN RES OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS FT4 10 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]					

Applicable Specifications

MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
THWN-2	90°C Dry / 90°C Wet / 600 V _{RMS}	
тс	90°C Dry / 90°C Wet / 600 V _{RMS}	
EXPOSED RUN		
SUN RES		
OIL RES I/II		
C(RU) AWM I/II A/B	90°C / 600 V _{RMS}	
FT4		
C(UL) CIC CONTROL	90°C / 600V V _{RMS}	
C(UL) TC	90°C / 600V V _{RMS}	
Conductors ASTM Class K		
Conductors IEC Class 5 on AWG size		
EU Low Voltage Directive 2014/35/EU		
	EXPOSED RUN SUN RES OIL RES I/II C(RU) AWM I/II A/B FT4 C(UL) CIC CONTROL C(UL) TC Conductors ASTM Class K Conductors IEC Class 5 on AWG size	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):		
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.	
2) REACH Regulation (EC 190	7/2006):	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.	
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.	

Properties

Physical & Mechanical Properties				
1) Temperature Range	-30 to 90°C(static), -5 to 90°C (dynamic)			
2) Bend Radius	8X Cable Diameter(static), 8X Cable Diameter(dynamic)			
3) Pull Tension	330 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V _{RMS}			
2) Capacitance	33 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Inductance	0.16 μH/ft, Nominal			
4) Conductor DCR	1.02 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)			
a) Bulk(Made-to-order)				
Notes:				
a) Suitable for intermittent or light duty flexing where cycle count will be less than 1,500,000 cycles.				

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: MP10104RW

MP10104RW, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS 2 per GB/T 26572-2011.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) ,	
Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/1/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000