

## Product information sheet

### Brady Manual identification L-2190-15K Ademark wire markers (Catena rings)

#### DESCRIPTION:

##### GENERAL

**Print Technology:** Hot stamped

**Material Type:** very elastic PVC rings

**Finish:** Matte

**Format:** Semi cut to form a chain which allows each item to be removed one by one

**Colours:** available in black, blue, brown, green, grey, red, orange, pink, purple, yellow and white

##### APPLICATIONS

Manual marking for electrical cable and wires.

##### REGULATORY

L-2190-15K is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

L-2190-15K is REACH-compliant

#### PROPERTIES:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Wall thickness		0,60 – 1.10mm*
Elongation at break	ASTM D-638	325mm (640%)
Self-extinguishing		UL94 V2

Depending on diameter of the part

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Heat Resistance	60°C for 30 days	No visible effect
Min. Service Temperature	30 days at -40°C	No visible effect
UV-resistance	30 days at 0,35W/m <sup>2</sup> @340nm; black temperature: 63°C	No visible effect
Humidity	30days at 37°C/95%R.H.	No visible effect
QUV-resistance	ASTM G154	No visible effect

#### FEATURES:

**Marking:** black on white; black on yellow; International colour code

**Symbols:** 0-9, A-Z, +, -, /, ., =, ~, Δ, ←, →, Ground

#### Type diameter corresponding to external cable diameter

Type diameter (mm)	External diameter of cable (mm)
0.8	0.7 – 1.2
1.5	1.3 – 2.3
2.0	1.8 – 2.8
2.5	2.3 – 3.3
3.0	2.8 – 3.8
3.5	3.3 – 4.8
4.5	4.3 – 6.8
6.0	5.8 – 8.8

Shelf life: 2 years if stored below 35° C (95 ° F) and 50% R.H.



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Diameter MM	Symbol	Code	Material Description
1.5	0	AC0W15	CHAIN RINGS D.1,5 0 WHITE
1.5	1	AC1W15	CHAIN RINGS D.1,5 1 WHITE
1.5	2	AC2W15	CHAIN RINGS D.1,5 2 WHITE
1.5	3	AC3W15	CHAIN RINGS D.1,5 3 WHITE
1.5	4	AC4W15	CHAIN RINGS D.1,5 4 WHITE
1.5	5	AC5W15	CHAIN RINGS D.1,5 5 WHITE
1.5	6	AC6W15	CHAIN RINGS D.1,5 6 WHITE
1.5	7	AC7W15	CHAIN RINGS D.1,5 7 WHITE
1.5	8	AC8W15	CHAIN RINGS D.1,5 8 WHITE
1.5	9	AC9W15	CHAIN RINGS D.1,5 9 WHITE
1.5	L	ACIW15	CHAIN RINGS D.1,5 I WHITE
1.5	N	ACNW15	CHAIN RINGS D.1,5 N WHITE
1.5	U	ACUW15	CHAIN RINGS D.1,5 U WHITE
1.5	V	ACVW15	CHAIN RINGS D.1,5 V WHITE
1.5	W	ACWW15	CHAIN RINGS D.1,5 W WHITE
1.5	-	AC15WM	CHAIN RINGS D.1,5 - WHITE
1.5	+	AC15WP	CHAIN RINGS D.1,5 + WHITE
1.5	terra	AC15WH	CHAIN RINGS D.1,5 EARTH BIA
2.5	0	AC0W25	CHAIN RINGS D.2,5 0 WHITE
2.5	1	AC1W25	CHAIN RINGS D.2,5 1 WHITE
2.5	2	AC2W25	CHAIN RINGS D.2,5 2 WHITE
2.5	3	AC3W25	CHAIN RINGS D.2,5 3 WHITE
2.5	4	AC4W25	CHAIN RINGS D.2,5 4 WHITE
2.5	5	AC5W25	CHAIN RINGS D.2,5 5 WHITE
2.5	6	AC6W25	CHAIN RINGS D.2,5 6 WHITE
2.5	7	AC7W25	CHAIN RINGS D.2,5 7 WHITE
2.5	8	AC8W25	CHAIN RINGS D.2,5 8 WHITE
2.5	9	AC9W25	CHAIN RINGS D.2,5 9 WHITE
2.5	L	ACLW25	CHAIN RINGS D.2,5 L WHITE
2.5	N	ACNW25	CHAIN RINGS D.2,5 N WHITE
2.5	U	ACUW25	CHAIN RINGS D.2,5 U WHITE
2.5	V	ACVW25	CHAIN RINGS D.2,5 V WHITE
2.5	W	ACWW25	CHAIN RINGS D.2,5 W WHITE
2.5	-	AC25WM	CHAIN RINGS D.2,5 - WHITE
2.5	+	AC25WP	CHAIN RINGS D.2,5 + WHITE
2.5	terra	AC25WH	CHAIN RINGS D.2,5 EARTH BIAN
3.5	0	AC0W35	CHAIN RINGS D.3,5 0 WHITE
3.5	1	AC1W35	CHAIN RINGS D.3,5 1 WHITE
3.5	2	AC2W35	CHAIN RINGS D.3,5 2 WHITE
3.5	3	AC3W35	CHAIN RINGS D.3,5 3 WHITE
3.5	4	AC4W35	CHAIN RINGS D.3,5 4 WHITE



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3.5	5	AC5W35	CHAIN RINGS D.3,5 5 WHITE
3.5	6	AC6W35	CHAIN RINGS D.3,5 6 WHITE
3.5	7	AC7W35	CHAIN RINGS D.3,5 7 WHITE
3.5	8	AC8W35	CHAIN RINGS D.3,5 8 WHITE
3.5	9	AC9W35	CHAIN RINGS D.3,5 9 WHITE
3.5	L	ACLW35	CHAIN RINGS D.3,5 L WHITE
3.5	N	ACNW35	CHAIN RINGS D.3,5 N WHITE
3.5	U	ACUW35	CHAIN RINGS D.3,5 U WHITE
3.5	V	ACVW35	CHAIN RINGS D.3,5 V WHITE
3.5	W	ACWW35	CHAIN RINGS D.3,5 W WHITE
3.5	-	AC35WM	CHAIN RINGS D.3,5 - WHITE
3.5	+	AC35WP	CHAIN RINGS D.3,5 + WHITE
3.5	terra	AC35WH	CHAIN RINGS D.3,5 EARTH WHITE
6	0	AC0W60	CHAIN RINGS D.6 0 WHITE
6	1	AC1W60	CHAIN RINGS D.6 1 WHITE
6	2	AC2W60	CHAIN RINGS D.6 2 WHITE
6	3	AC3W60	CHAIN RINGS D.6 3 WHITE
6	4	AC4W60	CHAIN RINGS D.6 4 WHITE
6	5	AC5W60	CHAIN RINGS D.6 5 WHITE
6	6	AC6W60	CHAIN RINGS D.6 6 WHITE
6	7	AC7W60	CHAIN RINGS D.6 7 WHITE
6	8	AC8W60	CHAIN RINGS D.6 8 WHITE
6	9	AC9W60	CHAIN RINGS D.6 9 WHITE
6	L	ACLW60	CHAIN RINGS D.6 L WHITE
6	N	ACNW60	CHAIN RINGS D.6 N WHITE
6	U	ACUW60	CHAIN RINGS D.6 U WHITE
6	V	ACVW60	CHAIN RINGS D.6 V WHITE
6	W	ACWW60	CHAIN RINGS D.6 W WHITE
6	-	AC60WM	CHAIN RINGS D.6 - WHITE
6	+	AC60WP	CHAIN RINGS D.6 + WHITE
6	terra	AC60WH	CHAIN RINGS D.6 EARTH WHITE

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least two years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80 degrees F and 60% RH . We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Note: All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

**WARRANTY**



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Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. **This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.**