

**BRADY B-7649 BLUE METAL DETECTABLE CABLE TAGS**

TDS No. B-7649  
Effective Date: 18/02/2026

**GENERAL PRODUCT DESCRIPTION:**

**Print Technology:** Thermal Transfer  
**Material Type:** Polyethylene  
**Available Colors:** Blue

**APPLICATIONS:**

These tags have been specifically designed to identify cables and wires in applications where metal detectability is required. Commonly used in the food-and beverage industry and pharma industry.

**RECOMMENDED RIBBONS**

Brady R6700 series white ribbon  
Brady R6800 series white ribbon

**REGULATORY APPROVALS**

These tags will be available in the HACCP/ISO 22000 preferred blue.

**SPECIAL FEATURES**

Capable of being detected by commercially available metal detectors (individual detection levels will vary based on detector set up, Brady recommends testing labels for detection before installation).  
Compatible with portable and benchtop thermal transfer printers.  
Can be used in combination with Brady blue metal detectable cable ties.

**Details:**

PROPERTIES	TEST METHODS	TYPICAL RESULTS
Thickness	ASTM D1000	0,6 mm
Tensile Strength	ASTM D882, MD	>8.5 Mpa
High service temperature	30 days at 60°C (140°F)	No visible effect
Low service temperature	30 days at -40°C (-40°F)	No visible effect
Humidity Resistance	30 days at 38°C (100°F) and 95% RH	No visible effect
UV Light Resistance	30 days in Xenon test chamber according ASTM G155, Cycle 1 dry	No visible effect
Abrasion resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306); 50 cycles	R-6700: Moderate fading of print R-6800: Moderate fading of print

**Chemical Resistance**

Samples were thermal transfer printed with Brady R-6700 and R-6800 white ribbon series. Tests were conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After the final immersion, the samples were removed from the test fluid and the printed image was rubbed 10 times with a cotton swab saturated with the test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE			
	R6700 PRINTING WITHOUT RUB	R6700 PRINTING WITH RUB	R6800 PRINTING WITHOUT RUB	R6800 PRINTING WITH RUB
Isopropyl Alcohol	1	5	1	2
N-hexane	1	5	1	1
Acetone	1	5	1	4
Ethanol 96%	1	1	1	2
Distilled Water	1	1	1	1
5% Soap solution Extran MA02	1	1	1	1

Rating Scale:

1 = No visible effect

2 = Slight smear or print removal, detectable but minimal smear

3 = Moderate smear or print removal (print still legible)

4 = Severe smear or print removal (print illegible or just barely legible)

5 = Complete print removal

NP = print removed prior to rub

**Shelf Life:**

Shelf Life: Shelf life is five years from date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual applications.

**Trademarks:**

ASTM: American Society for Testing and Materials (U.S.A.)

**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.

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