


Product: [9R28026](#)

Rainbow Ribbon Cable .050" Pitch, 9R280XX Series, #28-26c, PVC Insulated Conductors on PVC Substrate

Product Description

Rainbow Ribbon Cable .050" Pitch, 9R280XX Series, 26 Conductor, 28 AWG (7x36) Tinned Copper, PVC Insulated Conductors on PVC Substrate

Technical Specifications
Product Overview

Suitable Applications:	Internal interconnection, internal wiring of electronic equipment, color-coded for quick identification & circuit tracing, easy breakouts for circuit routing, designed for mass-termination with standard IDC connectors
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Construction Details
Conductor

Size	Stranding	Material
28	7x36	TC - Tinned Copper

Insulation

Material	Nom. Thickness	Color Code
PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Black, Repeat as required

Conductor Spacing Center-Center:	.050 +/- .003 in
Conductor Spacing Center-Center Outside:	1.250 +/- .008 in

Electrical Characteristics
Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedance	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
68.2 Ohm/1000ft (224 Ohm/km)	18 pF/ft (59 pF/m)	150 Ohm	1.40 ns/ft	0.29 μ H/ft (0.95 μ H/m)	72%	1 Amp per Conductor at 20°C
	10 pF/ft (33 pF/m)	105 Ohm		0.2 μ H/ft (0.66 μ H/m)		
	15 pF/ft (49 pF/m)					

Unbalanced Crosstalk

Element	Typical Unbalanced NEXT %	Typical Unbalanced FEXT %	Typical Cross Talk Pulse Rise Time
10 ft. sample length	4.8	7	3 ns
10 ft. sample length	3.5	4.7	5 ns
10 ft. sample length	3	3	7 ns

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss (Attenuation)
10	2.8 dB/100ft
20	4.8 dB/100ft
30	6.5 dB/100ft
40	8.3 dB/100ft
50	9.8 dB/100ft
60	12 dB/100ft
70	13 dB/100ft
80	14 dB/100ft
90	15.8 dB/100ft

High Frequency Table
(Nominal/Typical) Notes:

GS=Ground-Signal Mode; GSG=Ground-Signal-Ground Mode

Voltage**UL Voltage Rating**

300 V

Mechanical Characteristics**Temperature****Operating**

-20°C to +105°C

Bulk Cable Weight:

29 lbs/1000ft (43 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	VW-1
AWM Compliance:	AWM 20932
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:

Revision Number: 0.298 Revision Date: 09-07-2025

Part Numbers**Variants**

Item #	Color	Putup Type	Length	UPC
9R28026 000100	None	Reel	100 ft	612825221920

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