

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SPECIFICATION CONTROL DRAWING

10614



.0250

(.635 mm)

.048 ± .002

 $(1.22 \pm .05 \text{ mm})$

.032

(.813 mm)

.113

(2.87 mm)

.125

(3.18 mm)

.142

(3.61 mm)

.158

(4.01 mm)

77 OHM, AWG 24, 19 STRANDS OF AWG 36, EMP HARDENED. DATA BUS CABLE, MIL-STD-1553

Date: 8-14-14 Revision:

THIS SPECIFICATION SHEET FORMS A PART OF THE LATEST ISSUE OF RAYCHEM SPECIFICATION 1200.

CONSTRUCTION DETAILS

ELECTRICAL CHARACTERISTICS

DIMENSIONS ARE NOMINAL VALUES IN INCHES. UNLESS OTHERWISE

CONDUCTORS

DIELECTRICS

FILLERS

1st SHIELD

AWG 38,

Optimized

Mu-Metal

2nd SHIELD

AWG 38.

Optimized

JACKET

Designate outer jacket color with a dash number in accordance with

MIL-STD-681. Unless otherwise specified, outer jacket color will be white (designated by a "-9" appended to the part number and

Other codes and suffixes may be added to the part number, as

necessary, to capture any additional requirements imposed by the

Tin-Coated Copper,

Radiation-Crosslinked.

Modified ETFE

WRAP

Tin-Coated Copper,

Modified ETFE

Modified ETFE

19 Strands of AWG 36.

Silver-Coated High-

Strength Copper Alloy

Radiation-Crosslinked,

Radiation-Crosslinked,

Colors - Light Blue/White

AWG 24.

CHARACTERISTIC IMPEDANCE MUTUAL CAPACITANCE ATTENUATION

77 ± 5 ohms, Method C at 1 MHz 30.0 pF/ft. (98.4 pF/m) (maximum) 1.4 dB/100 ft. (4.59 dB/100 m) (maximum)

at 1 MHz

SURFACE TRANSFER IMPEDANCE 0.2 milliohms/meter (maximum) (Per SAE AS85485) at 30 MHz

ADDITIONAL REQUIREMENTS

COMPONENT WIRE PRIOR TO CABLING (Test procedures per SAE AS22759)

CONDUCTOR RESISTANCE

26.5 ohms/1000 ft. (86.9 ohms/km) (nominal)

CROSSLINKING PROOF TEST

300 ± 3°C for 1 hour, .625 inch (15.9 mm) mandrel, .375 lb (170 g), 2.5 kV dielectric test

INSULATION (DIELECTRIC)

ELONGATION 50% (minimum) TENSILE STRENGTH

5000 lbf/in² (34.5 N/mm²) (minimum)

NSULATION FLAWS

SPARK TEST 3.0 kV (rms) IMPULSE TEST 8.0 kV (peak)

5000 megohms for 1000 ft. INSULATION RESISTANCE (1524 megohms-km) (minimum)

LOW TEMPERATURE-COLD BEND -65 ± 3 °C for 4 hours,

.750 inch (19.1 mm) mandrel, 1.00 lb (454 g), 2.5 kV dielectric test

SHRINKAGE 200 ± 3°C for 1 hour,

.125 inch (3.18 mm) (maximum) in 12 inches (305 mm)

FINISHED CABLE

(Test procedures per NEMA WC 27500, unless otherwise specified) 200°C for 6 hours

BLOCKING CABLE LAY LENGTH

.75 inch (19.1 mm) (minimum),

CROSSLINKED VERIFICATION

1.25 inches (31.8 mm) (maximum) $300 \pm 5^{\circ}$ C for 6 hours.

FLAMMABILITY

6.00 inch (152 mm) mandrel 3 seconds (maximum);

(Method B of Spec 1200) 3 inches (76.2 mm) (maximum); no flaming of facial tissue

JACKET

ELONGATION 50% (minimum)

TENSILE STRENGTH

5000 lbf/in² (34.5 N/mm²) (minimum)

JACKET FLAWS

SPARK TEST 1.0 kV (rms) IMPULSE TEST 6.0 kV (peak)

JACKET THICKNESS LOW TEMPERATURE-COLD BEND

.008 inch (.203 mm) (nominal) -55 ± 5 °C for 4 hours.

6.00 inch (152 mm) mandrel 1500 volts (rms)

VOLTAGE WITHSTAND (DIELECTRIC)

.002 inch (.051 mm) thick (nominal),

25% overlap (minimum)

WEIGHT

WRAP

29.1 lbs/1000 ft. (43.3 kg/km) (maximum) CABLE IDENTIFICATION: Outer jacket shall be marked in contrasting color at 12 inch (305 mm) (nominal) intervals between marks as follows: "10614 RAYCHEM"

ENGINEERING REFERENCE

TEMPERATURE RATING

150°C (maximum)

Users should evaluate the suitability of this product for their application. Specifications are subject to change without notice. Tyco Electronics Corporation also reserves the right to make changes in materials or processing, which do not affect compliance with any specification, without notification to Buyer.

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purchase order.

conductor AWG size, e.g. 10614-24-9).

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