

ETHERNET CABLE

1000 BASE-T ETHERNET

DBE-8-24-001



PHYSICAL PROPERTIES:

JACKET	WHITE LASER MARKABLE TEFZEL
INNER CONDUCTORS	24AWG STANDARD SILVER PLATED HIGH STRENGTH COPPER ALLOY
INNER SHIELD	ALUMINUM MYLAR TAPE
OUTER SHIELD	38 AWG TIN-PLATED COPPER BRAID, 90% MIN COVERAGE
X WEB	FOAMED FLUOROPOLYMER
BINDER	PTFE TAPE
INSULATION	SOLID HIGH TEMPERATURE FLUOROPOLYMER
MARKER TAPE	WHITE NOMEMX, MARKING ON TAPE IS DBE-8-24-001
OUTER DIAMETER	0.262 in (0.665 cm)
MIN. BEND RADIUS	1.30 in (3.30 cm)
WEIGHT	0.050 lbs/ft (0.022 kg/m)
OPERATING TEMP	-55°C TO +155°C
BREAK STRENGTH	22.4 lbs MIN.

ELECTRICAL PROPERTIES:

IMPEDANCE	100 Ω
CAPACITANCE	14.5 pF/ft (47.6 pF/m)
PROPAGATION VELOCITY	70%
DIELECTRIC VOLTAGE RATING	1.50 kV RMS
DC RESISTANCE	0.028 Ω /ft (0.093 Ω /m) @ 20° C

STANDARD COMPLIANCE:

CABLE FAA	TITLE 14 CFR, PART 25.869 (A)(4) AMENDMENT 25-113 APPENDIX F, PART I (A)(3)
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ATTENUATION:

FREQUENCY	dB/100 ft
10 MHz	2.2 NOM, 2.6 MAX
100 MHz	6.8 NOM, 8.2 MAX
250 MHz	10.9 NOM, 13.1 MAX
500 MHz	15.6 NOM, 18.7 MAX

CERTIFICATIONS:

ISO 9001
AS9100
FAA-PMA
AC 00-56B

DB INTEGRATIONS

3405 Airport Road
Allentown, PA 18109
(610) 443-0201

www.dbiaero.com
sales@dbiaero.com

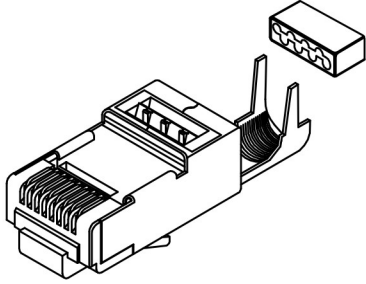
CALL OR EMAIL FOR AVAILABILITY



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AVAILABLE CONNECTORS

DBT-45-100 (PLUG, RJ45, 8X8, SHIELDED)



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TERMINATION INSTRUCTIONS

Note: It is recommended to use DB Integrations **P/N: DBT-020** for proper termination. Tooling may be substituted as desired. Contact DBI support for alternatives.

1. Slide the two supplied pieces of heat shrink onto the cable.



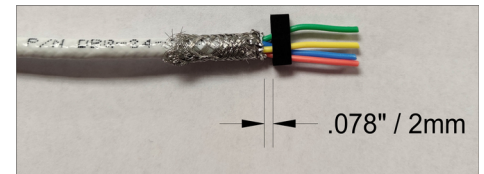
2. Using a razor blade, lightly score the outer jacket at 1.00 inches from the end of the cable. Peel back and remove the outer jacket from this section. Take caution not to cut into the braiding.

3. Fold the exposed braiding back over the cable jacket. Remove the inner layer of flat foil and any tape over the four conductors to expose them.



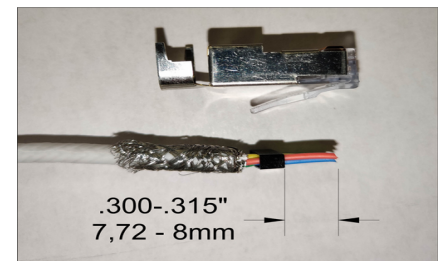
4. Put the conductors in order. Work them until they are straight and insert them into the supplied load bar.

5. Pull the load bar toward the cable jacket and leave a gap of 0.78 inches from the exposed shielding.



6. Trim the conductors to a final length of 0.300 – 0.315 inches from the front of the load bar to the tips of the conductors.

7. Slide the load bar into the connector housing and crimp the assembly (including the shield) using the DB Integrations **P/N: DBT-020** crimp tool.



8. Heat down the smaller piece of shrink tubing so that it covers the crimped shield.



9. Heat down the larger piece of shrink tubing over the smaller one.



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