

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

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85164 Multi-Conductor - High-Temperature Control and Instrumentation Cable



For more Information
please call

1-800-Belden1



General Description:

20 AWG stranded (7x28) TC conductors, Tefzel® insulation, pairs cabled together, overall Beldfoil Aluminum-Kapton® shield (100% coverage), drain wire, Tefzel® material jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	20	7x28	TC - Tinned Copper

Total Number of Conductors:

8

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Tefzel®	ETFE - Ethylene Tetrafluoroethylene	0.381

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum-Kapton® Foil	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Tefzel®	ETFE - Ethylene Tetrafluoroethylene	0.635

Overall Cable

Overall Nominal Diameter:

8.738 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue

Mechanical Characteristics (Overall)

Operating Temperature Range: -60°C To +150°C

Bulk Cable Weight: 98.221 Kg/Km

Max. Recommended Pulling Tension: 498.198 N

Min. Bend Radius/Minor Axis: 88.900 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
73

Nom. Inductance:

Inductance (μ H/m)
0.610266

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
75.463

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
131.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
30.5133

Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
4 Amps per conductor @ 25°C

Notes (Overall)

Notes: Tefzel and Kapton are DuPont trademarks.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
85164 368100	30 MT	3.765 KG	CLEAR, TRANSPARENT	C	4 PR#20 TEFZEL FS TEFZEL
85164 3681000	305 MT	32.205 KG	CLEAR, TRANSPARENT	C	4 PR#20 TEFZEL FS TEFZEL

Notes:

C = CRATE REEL PUT-UP.

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