

Alternatives to Belden these low capacitance data cables are widely used in CAD/CAM applications or where low signal distortion is required. They have excellent screening & allow high data rates to run over long distances for RS232 & RS423 connections.

Some sizes available in versions including:
LSZH (low smoke zero halogen) = fire safety
PE (polyethylene) = duct grade
SWA (steel wire armour) = direct burial.

Construction

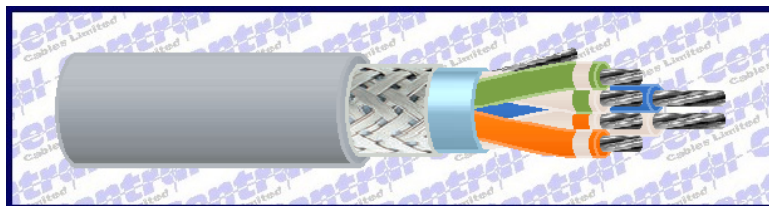
24AWG stranded tinned copper conductors with foam polyolefin (PO) insulation, twisted into pairs
overall aluminium/polyester foil tape screen with tinned copper drain wire
overall tinned copper wire braid (TCWB) screen
grey polyvinylchloride or low smoke & fume (PVC/LSF) outer sheath

Technical

conductor stranding:	7x 0.2mm diameter (0.227mm ² area)
rated voltage:	300V or 600V
capacitance:	41pF/m core/core, 72pF/m core/shield
nominal impedance:	100 Ohms
temperature range:	usually -20°C to +70°C, please check if critical
UL style:	2919
core identification:	coloured according to Western Electric code

Comparable Belden Reference	Number of Pairs	Overall Diameter (mm)	Overall Weight (kg/km)
8102	2	6.8	61
8103	3	7.1	71
8104	4	7.6	80
8105	5	7.9	89
8106	6	8.6	104
8107	7	8.6	106
8108	8	9.3	118
8110	10	10.9	150

Belden numbers & UL references are provided for cross reference purposes only, please inform us if you require Belden manufacture or UL approved cables.



Comparable Belden Reference	Number of Pairs	Overall Diameter (mm)	Overall Weight (kg/km)
8112	12	11.8	165
8115	15	12.6	196
8118	18	13.6	235
8125	25	16.1	297

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PVC/LSF Properties: fairly tough & flexible materials resistant to a wide range of oils and chemicals. LSF (low smoke & fume) offers reduced smoke emission compared with standard PVC (polyvinylchloride), however there is no standard governing the hydrogen chloride (HCL) emissions of LSF so it may still be hazardous if burnt.

LSF must not be confused with LSZH (low smoke zero halogen) which guarantees max. 0.5% HCL emissions.

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