

585 - 660 TO 762.

PERMANOID LIMITED

DATA TRANSMISSION CABLES

DATA TRANSMISSION CABLES

A range of instrumentation cables and data cables wrapped with aluminium **Mylar*** tape to provide 100% audio and RF screening. A tinned copper drain wire runs under and in contact with the screen for fast and easy earth termination.

Although there are slight differences in cable make-up, cables to these specifications have been found to be interchangeable with certain American types.

Insulation Types -

PVC

Has very good resistance to ozone and corona and a good resistance to oil, water and chemicals.

Polyethylene

Has very good ozone and insulation resistance and a high electric strength. It has good resistance to water, chemicals, solvents and abrasion.

Polypropylene

Has very good resistance to abrasion and ozone, and has a high insulation resistance. It has a good resistance to water, chemicals and solvents.

* A DUPONT REGISTERED TRADEMARK

PERMADATA MULTI "FOIL SCREENED" PAIRS 7/0.2mm (7 x 32-24 AWG)

These high quality instrumentation and data cables have pairs laid up in aluminium Mylar* Tape. The cables incorporate a tinned copper drain wire under and in contact with the screen.

Uses: Permadata cables are widely used for data transmission and instrumentation applications.

Conductor: Tinned annealed high conductivity copper wire to BS 6360.
The nearest US equivalent to conductor size 7/0.2mm is 7 x 32-24 AWG.

Insulation: PVC

Insulation colours: Refer to the tables at the end of this section

Screen: Aluminium Mylar* Tape.

Sheath: Flame retardent PVC to BS 4066.

Sheath Colours: Silver grey.

Packing: 100, 500 and 1,000m reels.

585-

660

660/737

671/749

683

695

713

725

Type No.	Belden Equivalent (Nearest)	No. Of Pairs	Insulation Type	Conductor Size	Nominal Overall Diameter (mm)
PD1001	9501	1	PVC	7/0.2MM (7X32-24 AWG)	3.95
PD1002	9502	2	PVC	7/0.2MM (7X23-24 AWG)	5.55
PD1003	9503	3	PVC	7/0.2MM (7X23-24 AWG)	5.85
PD1004	9504	4	PVC	7/0.2MM (7X23-24 AWG)	6.50
PD1005	9505	5	PVC	7/0.2MM (7X23-24 AWG)	7.00
PD1007	9507	7	PVC	7/0.2MM (7X23-24 AWG)	7.50
PD1008	9508	8	PVC	7/0.2MM (7X23-24 AWG)	8.20
PD1010	9510	10	PVC	7/0.2MM (7X23-24 AWG)	9.65
PD1015	9515	15	PVC	7/0.2MM (7X23-24 AWG)	11.00

PERMADATA MULTI "FOIL SCREENED" PAIRS 7/0.25mm (7x30-22 AWG)

High quality instrumentation and data transmission cables have individually screened pairs laid up with a tinned copper drain wire under and in contact with the screen.

Uses: Widely used for transmission broadcasting and instrumentation applications.

Conductor: Tinned annealed high conductivity copper wire to BS 6360.
Nearest US equivalent to conductor size 7/0.25mm (7x30-22 AWG).

Insulation: Polyethylene or polypropylene.

Insulation Colours: Refer to the table at the end of this section

Screen: Aluminium Mylar* Tape.

Sheath: Flame retardent PVC to BS 4066.

Sheath Colours: Silver grey.

Packing: 100, 500 and 1,000m reels.

585-
750/762

Type No.	Belden Equivalent (Nearest)	No. Of Pairs Or Cores	Insulation Type	Conductor Size	Nominal Overall Diameter (mm)
PD3001	8761	1	Polyethylene	7/0.25mm (7x30-22AWG)#	4.60
PD3002	8723	2	Polypropylene	7/0.25mm (7x30-22AWG)	5.90
PD3003	8777	3	Polypropylene	7/0.25mm (7x30-22AWG)	8.10
PD3006	8778	6	Polypropylene	7/0.25mm (7x30-22AWG)	10.30
PD3009	8774	9	Polypropylene	7/0.25mm (7x30-22AWG)	12.00
PD3012	9768	12	Polypropylene	7/0.25mm (7x30-22AWG)	13.30
PD3015	8776	15	Polypropylene	7/0.25mm (7x30-22WG)	15.60
PD3019	8769	19	Polypropylene	7/0.25mm (7x30-22AWG)	16.95

* NEW DEVELOPMENT *

UL RECOGNISED DATA CABLES:

APPLICATION

These high quality instrumentation / data cables are primarily intended for computer, point of sale equipment and data processing systems.

CABLE CONSTRUCTION

The cable is constructed incorporating conductors of 24 AWG (7 strands of 32 AWG) tinned soft copper wire, PVC insulated with laid up twisted pairs, lapped with an overall aluminium-polyester foils screen providing 100% external screening. Termination of the foil screen is effected by means of a standard 24 AWG tinned soft copper wire with the cable being sheathed with PVC.

SPECIFICATION

UL recognised as style 2464, rated at 300 volts, for operation at maximum temperature of 80°C.

The cables are printed throughout their length with the UL style identification together with the voltage and temperature rating for the cable.

Conductor resistance is 82.14 ohms per Km.

Capacitance between conductors connected to the screen is 200pF/m

PAIR COLOURS:

PAIR	COLOUR	PAIR	COLOUR
1	Black-Red	11	Red-Yellow
2	Black-White	12	Red-Brown
3	Black-Green	13	Red-Orange
4	Black-Blue	14	Green-White
5	Black-Yellow	15	Green-Blue
6	Black-Brown	16	Green-Yellow
7	Black-Orange	17	Green-Brown
8	Red-White	18	Green-Orange
9	Red-Green	19	White-Blue
10	Red-Blue		

CORE COLOURS:

PAIR	COLOUR	PAIR	COLOUR
1	Black	14	Green/White
2	White	15	Blue/White
3	Red	16	Black/Red
4	Green	17	White/Red
5	Orange	18	Orange/Red
6	Blue	19	Blue/Red
7	White/Black	20	Red/Green
8	Red/Black	21	Orange/Green
9	Green/Black	22	Black/White/Red
10	Orange/Black	23	White/Black/Red
11	Blue/Black	24	Red/Black/White
12	Black/White	25	Green/Black/White
13	Red/White		