

DataGuard® (SWA)

430 Series Multi-Pair 22awg (RS) TIA-485

Control Cables 600V



Application

A range of 22awg low capacitance cables with a high level of screening. Provides interference free, high speed data transmission suitable for a range of RS485 applications including HART and Can Open systems. These cables utilise DataGuard® armouring and FireFighter® Low Smoke Zero Halogen performance materials.

Cable Design

Conductor	Stranded tinned copper wire (22awg)
Insulation	Polyethylene (PE)
No. of Pairs	1, 1.5, 2, 3 or 4 - see colour chart on page 2
Overall Shield	Overall Aluminium/polyester tape
Drain Wire	Stranded tinned copper wire
Overall Braid Shield	Tinned copper wire braid, 65% coverage
Inner Jacket	LSZH FireFighter®
Armour	DataGuard® Steel Wire Armour (DSWA)
Outer Jacket	LSZH FireFighter®, Black

Characteristics

- Indoor/Outdoor applications
- Mechanical protection
- Rodent Protection
- Direct Burial
- UV-Resistant
- 600 V rated
- Temperature Range : -20°C up to +90°C

Fire Behaviour

- Flame Retardant acc. to IEC 60332-1
- Halogen Free acc. to IEC 60754
- Smoke Emission acc. to IEC 61034



DataGuard® (SWA)

430 Series Multi-Pair 22awg (RS) TIA-485

Control Cables 600V

Specification

Part Number	Formation No. of Pairs	Nom. Shield DC Resistance Ω/km	Inner Jacket \varnothing mm $\pm 10\%$	Outer Jacket \varnothing mm $\pm 10\%$	Weight kg/km
144301P2254-01	1 x 2 x 22 awg	9,5	7,0	11,9	355
144301.5P2254-01 *	1 x 2 x 22 awg + 1 x 22 awg	9,2	7,25	12,7	368
144302P2254-01	2 x 2 x 22 awg	4,6	9,0	13,5	398
144303P2254-01	3 x 2 x 22 awg	4,6	10,0	14,6	416
144304P2254-01	4 x 2 x 22 awg	3,6	11,30	16,0	433

*All conductors are under the braid shield, pair is under the aluminium/polyester tape

Electrical Characteristics

Nom. Capacitance (cond./cond.) pF/m	Nom. Capacitance (cond./cond./scrn) pF/m	Nom. Conductor DC Resistance Ω/km	Nom. Velocity of Propog- ation %	Nom. Impedance Ω
36,1	65,6	48,2	78	120

Colour Code Chart

Pair	Colour
1	White/Blue
1.5	White/Orange + Blue
2	White/Orange
3	White/Green
4	White/Brown

Belcom Cables Ltd. ("Belcom") reserves the right to make changes to the product described in this specification without prior notice. Belcom does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.