CLEVELAND CABLE COMPANY
A WORLD POWER IN CABLE SUPPLY

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BS EN 50288-7 COMMUNICATION & CONTROL CABLE PVC CAT

APPLICATION

BS EN 50288-7:2005 Multi-element metallic cables which are used in analogue and digital communication and control systems. The cables have a mechanically robust construction and electrical transmission handling properties. These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants and are not to be used for power supply. BS EN 50288-7 replaces the BS5308 Standard. BS 5308 has been subsequently changed to PAS5308. Cleveland Cable still support the older standards.

CABLE STANDARDS

BS EN 50288-7

BS EN 50288-1

BS EN/IEC 60332-3-24

HD383

Flame Retardant to BS EN/IEC 60332-1-2

CONSTRUCTION

Conductor:

0.5 - 0.75:

Class 5 flexible copper conductor

1mm & above:

Class 2 stranded copper conductor

Insulation: Cross-Linked Polyethylene (XLPE)
Laid up to form pairs

Screen: Collective aluminium / mylar tape screen with tinned copper drain wire

Sheath: Polyvinyl Chloride (PVC)

CHARACTERISTICS

Voltage Rating: 300 Volts: Communication & control cable – not for power applications
500 Volts cables available on request.

Temperature Limits: Fixed: -40°C to +80°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

Pairs: White | 3 Black Numbered
Triple: White | Black | Red
Sheath: Blue | Black

Should not be installed at temperatures below 0°C

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BS EN 50288-7 COMMS & CONTROL CABLE PVC CAT - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM)	NUMBER OF CONDUCTORS	NUMBER OF PAIRS/ TRIPLES	WEIGHT (KG/KM)	OVERALL DIAMETER
RE2X9100	0.5	2	1P	60	4.6
RE2X9124	0.5	3	1T	69	4.8
RE2X9101	0.5	4	2P(Q)	75	6.7
RE2X9102	0.5	10	5P	190	8.6
RE2X9103	0.5	20	10P	305	11.9
RE2X9104	0.5	30	15P	410	13.8
RE2X9105	0.5	40	20P	518	15.5
RE2X9106	0.75	2	1P	69	4.6
RE2X9125	0.75	3	1T	83	5.4
RE2X9107	0.75	4	2P(Q)	99	7.6
RE2X9108	0.75	10	5P	242	9.8
RE2X9109	0.75	20	10P	380	13.7
RE2X9110	0.75	30	15P	445	15.9
RE2X9111	0.75	40	20P	684	17.9
RE2X9112	1	2	1P	130	5
RE2X9126	1	3	1T	142	5.3
RE2X9113	1	4	2P(Q)	155	7.5
RE2X9114	1	10	5P	292	9.5
RE2X9115	1	20	10P	405	13.4
RE2X9116	1	30	15P	790	15.5
RE2X9117	1	40	20P	865	17.4
RE2X9118	1.5	2	1P	90	6.4
RE2X9127	1.5	3	1T	115	6.7
RE2X9119	1.5	4	2P(Q)	150	9.7
RE2X9120	1.5	10	5P	350	12.6
RE2X9121	1.5	20	10P	575	17.9
RE2X9122	1.5	30	15P	820	20.8
RE2X9123	1.5	40	20P	1080	23.5

BS EN 50288-7 COMMS & CONTROL CABLE– ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (MM^2)	CONDUCTOR CLASS	MUTUAL CAPACITANCE pF/m			MAXIMUM RESISTANCE CONDUCTOR AT 20°C Ω/Km	MAXIMUM L/R RATIO µH/ohms
		CABLES WITH COLLECTIVE SCREEN ONLY	1 PAIR, 2 PAIRS, 1 TRIPLE COLLECTIVELY SCREENED	CABLES WITH INDIVIDUALLY SCREENED PAIRS		
0.5	5	75	115	115	39	25
0.75	5	75	115	115	26	25
1	2	75	115	115	18.1	25
1.5	2	85	120	120	12.1	40
2.5	2	85	120	120	7. 41	65

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS