



TRACKSIDE COMMUNICATIONS CABLE LUL SPECIFICATION G7621 Types 1 & 2

Type 1: PACW/Cellular Polyethylene Insulation/PVC Outer Sheath

Type 2: PACW/Cellular Polyethylene Insulation/Halogen Free Flame Retardant Sheath

Applications:

Type 1

This cable is designed for installation in trackside bracket runs and for use within railway equipment rooms located in open locations.

Type 2

This cable is designed for installation in trackside bracket runs and for use within railway equipment rooms located in subsurface tunnels and stations.

Product Descriptions

Type 1: Plain copper wire conductors, cellular polyethylene insulation, assembled into pairs and a violet coloured PVC sheath.

Type 2: Plain copper wire conductors, cellular polyethylene insulation, assembled into pairs and a violet coloured halogen free flame retardant sheath.

Table of Dimensions & Electrical Properties (Types 1 & 2)

Number of Pairs	Conductor Size (mm)	Nominal Insulated Diameter (mm)	Maximum Average Resistance per kilometre at 20°C (ohms)	Maximum Average Mutual Capacitance per kilometre (nanofarads)	Maximum Diameter over Sheath
1	0.63	1.0	59	59	7.0
3	0.63	1.0	59	59	9.0
1	0.90	1.5	29	29	8.0
3	0.90	1.5	29	29	10.0

Insulation Resistance

Insulation resistance measurements shall be made with not less than 500 volts D.C. After steady electrification for one minute the insulation resistance measured between each conductor and the remaining conductors connected together shall be not less than 1500 megohms per 1000 metres at 20°C.

Capacitance Unbalance (For 3 Pair Cable Only)

Maximum average capacitance unbalance when corrected to the equivalent of 460m shall not exceed 100pF between pairs and 1200pF between any pair and earth.

B3 CABLE SOLUTIONS
Info@b3cables.com

UK - Delaunays Road, Blackley, Manchester, M9 8FP - tel: +44 (0)161 740 9151 - www.b3cables.com

IRELAND - Aghafad, Longford - tel: +353 (0)43 49400 - www.b3cables.com

SPAIN - c/ Concha Espina s/n - 39600 - Maliaño - Cantabria - tel.: +34 942 250 100 - www.b3cables.com

United Arab Emirates - PO Box: 10974 - Dubai - Tel/Fax: +971 4 284 8231 - www.b3cables.com

Hong Kong - 2401A, 24/F, Park-In Commercial Building, No.56 Dundas Street, Mongkok, Kowloon, Tel: 852-27100668 - www.b3cables.com

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