

APPLICATION RANGE

1. Instrumentation and control engineering analog and digital signal transmission
2. In chemistry industry
3. Petrochemistry industry
4. Power plants
5. Indoors and outdoors, dry, damp and wet environments
6. Gas Stations
7. Water Conveyance Systems

CONSTRUCTION

Conductor	Stranded electrolytic copper wire Class1,2,5 (BS EN 60228:2005)
Fire Resistant	Copper covered with MICA TAPE (BS 7655-1-3)
Insulation	XLPE (Cross-Link Polyolethylen) Compound (EN 50290-2-29)
Colour Code	BS 5308-1
Stranding	Pairwise, pairs in layers
Wrapping	PES Tape
Overall Screen	Tinned Copper Drain Wire (0,5 mm ²) + AL-PES Tape
Inner Sheath	HFFR (Halogen Free) Compound (EN 50290-2-27)
Armour	Galvanised Steel Wire Braiding
Sheath	HFFR (Halogen Free) Compound (EN 50290-2-27)
Sheath Colour	Black or Blue

TECHNICAL SPECIFICATION

Temperature Range	-30°C to +90°C (Fixed Installation)
Minimum Bending Radius	6 x outer diameter
Fire Resistant	IEC 60331-21
Flame Propagation	IEC 60332-3-22
Smoke Density	IEC 61034-2
Test on Corrosiveness of Combustion Gases	IEC 60754-2
Halogen Free Test	IEC 60754-1

ELECTRICAL SPECIFICATION

Conductor cross-section	nom.	mm ²	0,5	0,75	1	1,5	2,5
Insulation resistance	min.	MΩxkm	5000				
Mutual capacitance	max.	nF/km	100	100	100	100	100
Inductance	max.	mH/km	1				
Capacitance unbalance	max.	pf/500 m	500				
L/R ratio	max.	μH/Ω	25			40	
Test voltage Urms (core:core)		V	2000				
Test voltage Urms (core:screen)		V	2000				
Operating Voltage		V	300/500				



PT1TY2 MGT LSZH CAT

CROSS SECTION	OUTER DIA.(±%5)	G
mm²	mm	Kg/Km
1x2x0,5	11,40	243,3
1x3x0,5	12,20	278,3
2x2x0,5 (quad)	12,70	298,7
5x2x0,5	19,30	642,6
10x2x0,5	24,80	933,5
1x2x0,75	11,80	260,9
1x3x0,75	12,70	302,6
2x2x0,75 (quad)	13,20	326,2
5x2x0,75	20,20	708,6
1x2x1	12,00	271,0
1x3x1	12,90	315,2
2x2x1 (quad)	15,90	409,9
5x2x1	20,80	756,4
1x2x1,5	12,80	305,5
1x3x1,5	13,50	349,9
2x2x1,5 (quad)	14,40	396,5
5x2x1,5	22,40	877,2
1x2x2,5	13,80	354,5
1x3x2,5	14,80	420,3
2x2x2,5 (quad)	15,60	473,0
5x2x2,5	25,00	1092,7