

Railways Signaling ZPFU Cable Type, 1 to 56pairs, Armoured & LDPE/PVC Sheath

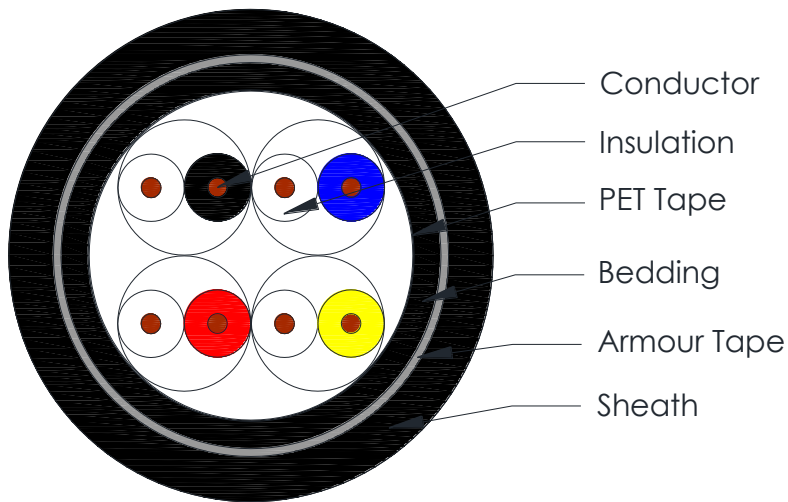


C4385, C4386, C4387, C4388, C4389, C4390, C4391, C4392

Applications

Signaling circuits in rail-way networks.

Cross Section Drawing



Design

Unit	Properties
Conductor	Bare Copper wire
Insulation	Polyethylene
Pair	Two wires are twisted to form a pair
Stranding	Pairs are helically stranded to get the cable core
Cable Wrapping	Plastic tapes with over-lapping
Bedding	Low density Polyethylene
Mechanical Protection	Two helically applied galvanized steel tapes.
Sheath	Flame-Retardant Polyvinyl Chloride (PVC) Standard colour: Black
Standard Put Up Length	305 meters

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C4385	C4386	C4387	C4388	C4389	C4390	C4391	C4392
No of Pairs	1	2	4	7	14	21	28	56
Nom. Diameter Conductor(mm)	1.13							
Nom. Radial Thickness Bedding(mm)	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.3
Nom. Radial Thickness Sheath(mm)	1.5	1.5	1.6	1.7	1.8	2.0	2.2	2.5
Max. average Overall Diameter(mm)	12.5	13.7	18.6	22.4	28.0	32.4	36.5	47.8
Nominal Cable Weight (kg/km)	194	235	471	711	965	1259	1537	2468

Electrical Characteristics at 20°C

Part Number	C4385	C4386	C4387	C4388	C4389	C4390	C4391	C4392
No of Pairs	1	2	4	7	14	21	28	56
Max. DC Resistance Conductor (Ω /km)	18.1							
Min. Insulation Resistance for 3Min, 500Vdc ($M\Omega \cdot km$)	5000							
Max. Mutual Capacitance at 1000Hz, AC (pF/m)	55							
Max. Capacitance unbalance (pF/500m)	400							
Dielectric strength between conductors, 3Min, (Vdc)	4500							
Max. Attenuation (dB/km) 20 to 45KHz 45 to 80KHz	2.5 3.0							
Characteristic Impedance (Ω) 20 to 45KHz 45 to 80KHz	120 \pm 10 115 \pm 10							

Arrangement of cable cores

Part Number	C4385	C4386	C4387	C4388	C4389	C4390	C4391	C4392
No of Pairs	1	2	4	7	14	21	28	56
center	1	1quad	4	1	4	1	3	5
1 st Layer	-	-	-	6	10	7	9	11
2 nd Layer	-	-	-	-	-	13	16	17
3 rd Layer	-	-	-	-	-	-	-	23

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Color code

Position of pair within layer	Color of insulation	
	a-wire	b-wire
1 st (pilot)	Natural	Black
2 nd , 6 th , 10 th ...	Natural	Blue
3 rd , 7 th , 11 th ...	Natural	Yellow
4 th , 8 th , 12 th ...	Natural	Red
5 th , 9 th , 13 th ...	Natural	Green
2pairs shall be twisted in to a star-quad	Natural, Yellow, Black, Blue (Black and white at opposite position)	

Reference Standards

(BS) EN 50290-2
IEC 60228
SNC CT 445
NFC 32-070 Category C2
RoHS directives