

INSTRUMENT (IS-OS) | Multi-Pair (Cu or ATC/PE/IS-OS/PVC)

APPLICATION

Manufacturing plant Data Transmission Voice Transmission Petroleum Industry
Interconnection of Electrical Equipment

CONSTRUCTION

Conductor: Solid/ Flexible/ Stranded Circular, Plain annealed Copper or Tinned Copper, Class-1 or Class-2 or Class-5 to BS 6360
Insulation: Polyethylene, PE Type O3 to BS 6234
Pairing: Two insulated core uniformly twisted together
Individual screen: Aluminium/polyester tape is applied over the laid up pairs with tinned copper drain wire
Binder: PETP transparent tape
Collective screen: Aluminium/polyester tape is applied over the laid up pairs with tinned copper drain wire
Sheath: PVC sheath, type TM1 to BS 6746
Option: FR type/ FRLS Type/ LSZH Type

VOLTAGE GRADE

Uo/U : 300/500 V
Test Voltage: 1.0 kV

OPERATING TEMP.

- 20°C to +70°C
Max Short Circuit: 160°C

MIN. BENDING RADIUS

Approx. 5x Cable Diameter

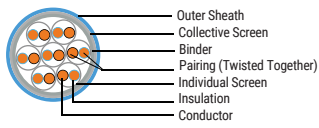
STANDARD

BS 5308 Part-1, Type-1

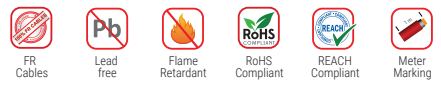
COLOR

Insulated Core: See color chart of technical information
Sheath: ● Black (Black or Blue or other colors available on request)
 ● Blue

*REACH | RoHS | CF



CHARACTERISTICS



INSTALLATION CONDITION



CABLE DESIGN PARAMETER

No. of pairs & Cross sectional area of conductor	Shape of conductor	No. of strands & Diameter of Wire	Nominal thickness of insulation	Nominal Thickness of sheath	Approx. Overall diameter of cable	Approx. Weight of cable	Max. D.C Resistance of conductor at 20 °C
pair x mm ²	-	no./mm	mm	mm	mm	kg/km	Ω/km
2Px0.5	re	1/0.8	0.5	0.9	9.7	95	36.0
5Px0.5	re	1/0.8	0.5	1.2	13.0	180	36.0
10Px0.5	re	1/0.8	0.5	1.2	16.9	310	36.0
15Px0.5	re	1/0.8	0.5	1.3	19.7	440	36.0
2Px0.5	rm	16/0.2	0.6	1.1	11.2	110	39.0
5Px0.5	rm	16/0.2	0.6	1.2	14.5	250	39.0
10Px0.5	rm	16/0.2	0.6	1.3	19.3	480	39.0
15Px0.5	rm	16/0.2	0.6	1.5	22.6	570	39.0
2Px1.0	re	1/1.13	0.6	1.1	11.9	200	18.1
5Px1.0	re	1/1.13	0.6	1.2	15.4	290	18.1
10Px1.0	re	1/1.13	0.6	1.3	20.5	580	18.1
15Px1.0	re	1/1.13	0.6	1.5	24.1	780	18.1
2Px1.5	rm	7/0.52	0.6	1.2	13.6	250	12.1
5Px1.5	rm	7/0.52	0.6	1.3	17.7	460	12.1
10Px1.5	rm	7/0.52	0.6	1.5	23.9	760	12.1
15Px1.5	rm	7/0.52	0.6	1.7	28.0	1020	12.1