

INSTRUMENT (OS)

Multi-Core (Cu or ATC/PVC/OS/PVC)

APPLICATION

These cables are generally used for indoor installation and suitable for wet and damp areas. Generally used within industrial process manufacturing plants for communication, data and voice transmission signals and services. Also used for the interconnection of electrical equipment and instruments, typically in petroleum industry.

STANDARD



BS 5308 Part-2, Type-1

VOLTAGE GRADE

U_0/U : 300/500 V

COLOR

Insulated core : See color chart of technical information

Sheath :  or  (Black or Blue or Other Colors available on request)

CONSTRUCTION

Conductor: Flexible/ Stranded Circular, Plain annealed Copper or Tinned Copper, Class-2 or Class 5, BS 6360

Insulation: PVC, TI1 to BS 7655

Binder: PETP tape

Collective screen: Aluminium/polyester tape is applied over the laid up pairs with tinned copper drain wire

Sheath: PVC-FR, TM-1-FR to BS 7655



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	W/km
2Cx0.5	rm	16/0.2	0.6	0.8	6.2	60	39.7
3Cx0.5	rm	16/0.2	0.6	0.8	6.6	75	39.7
4Cx0.5	rm	16/0.2	0.6	0.8	7.2	80	39.7
6Cx0.5	rm	16/0.2	0.6	0.9	8.6	110	39.7
10Cx0.5	rm	16/0.2	0.6	1.1	11.2	180	39.7
20Cx0.5	rm	16/0.2	0.6	1.2	14.2	310	39.7
2Cx0.75	rm	24/0.2	0.6	0.8	6.7	75	26.5
3Cx0.75	rm	24/0.2	0.6	0.8	7.2	90	26.5
4Cx0.75	rm	24/0.2	0.6	0.8	7.8	100	26.5
6Cx0.75	rm	24/0.2	0.6	0.9	9.4	140	26.5
10Cx0.75	rm	24/0.2	0.6	1.1	12.2	220	26.5
20Cx0.75	rm	24/0.2	0.6	1.2	15.6	390	26.5
2Cx1.5	rm	7/0.53	0.6	0.8	8.0	105	12.3
3Cx1.5	rm	7/0.53	0.6	0.9	8.2	135	12.3
4Cx1.5	rm	7/0.53	0.6	0.9	9.0	150	12.3
6Cx1.5	rm	7/0.53	0.6	1.1	11.0	205	12.3
10Cx1.5	rm	7/0.53	0.6	1.2	14.0	330	12.3
20Cx1.5	rm	7/0.53	0.6	1.3	17.9	580	12.3

Characteristics



Operating Temperature
-20°C to 70°C



Maximum Short Circuit
160°C



Meter Marking



Lead free



Flame Retardant
IEC 60332-1-2



Test 1.0kV

Installation condition



Industrial Use



Outdoor Installation



In Duct



Open air



In water