

INSTRUMENT (OS)

Multi-Pair (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

U₀/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 to BS 6360

Insulation: PVC, TI1 to BS 7655

Pairing: Two insulated core uniformly twisted together

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 |
| 1Px0.5 | rm | 16/0.2 | 0.6 | 0.8 | 6.2 | 60 | 39.7 |
| 2Px0.5 | rm | 16/0.2 | 0.6 | 0.8 | 7.6 | 80 | 39.7 |
| 5Px0.5 | rm | 16/0.2 | 0.6 | 1.1 | 12.4 | 200 | 39.7 |
| 10Px0.5 | rm | 16/0.2 | 0.6 | 1.2 | 16.5 | 340 | 39.7 |
| 15Px0.5 | rm | 16/0.2 | 0.6 | 1.3 | 19.2 | 480 | 39.7 |
| 1Px0.75 | rm | 24/0.2 | 0.6 | 0.8 | 6.7 | 75 | 26.5 |
| 2Px0.75 | rm | 24/0.2 | 0.6 | 0.8 | 8.2 | 100 | 26.5 |
| 5Px0.75 | rm | 24/0.2 | 0.6 | 1.2 | 13.8 | 250 | 26.5 |
| 10Px0.75 | rm | 24/0.2 | 0.6 | 1.3 | 18.4 | 450 | 26.5 |
| 15Px0.75 | rm | 24/0.2 | 0.6 | 1.3 | 21.1 | 600 | 26.5 |
| 1Px1.5 | rm | 7/0.53 | 0.6 | 0.8 | 7.5 | 100 | 12.3 |
| 2Px1.5 | rm | 7/0.53 | 0.6 | 0.9 | 9.3 | 150 | 12.3 |
| 5Px1.5 | rm | 7/0.53 | 0.6 | 1.2 | 15.6 | 360 | 12.3 |
| 10Px1.5 | rm | 7/0.53 | 0.6 | 1.3 | 20.9 | 670 | 12.3 |
| 15Px1.5 | rm | 7/0.53 | 0.6 | 1.5 | 24.6 | 970 | 12.3 |

Characteristics



Installation condition

