

INSTRUMENT ARMoured (OS)

Multi-Pair (Cu or ATC/PE/OS/SWA/PVC)

APPLICATION

These armoured cables are generally used when the risk of mechanical damage is increased. The galvanized steel wire armour provides excellent protection. 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. The armoured versions are generally use for outdoor installation for direct burial or install in the duct and suitable for wet and damp areas.

STANDARD

BS 5308 Part-1, Type-2

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: Solid/ Flexible/ Stranded Circular, Plain annealed Copper or Tinned Copper, Class 1 or Class-2 or Class 5 to BS 6360

Insulation: Polyethylene, PE to BS 6234

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

Bedding: Polyethylene (PE) to BS 6234 or PVC, TM-1 to BS 7655

Armour: Round Galvanized Steel 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 bedding	Nominal diameter of round steel wire armour	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	mm	mm	kg/km	W/km
1Px0.5	re	1/0.8	0.5	0.8	0.9	1.3	9.9	200	36.8
2Px0.5	re	1/0.8	0.5	0.8	0.9	1.3	11.2	260	36.8
5Px0.5	re	1/0.8	0.5	1.1	0.9	1.4	15.5	460	36.8
10Px0.5	re	1/0.8	0.5	1.2	1.25	1.6	20.1	790	36.8
15Px0.5	re	1/0.8	0.5	1.2	1.25	1.6	22.2	1100	36.8
1Px0.5	rm	16/0.2	0.6	0.8	0.9	1.3	10.6	250	39.7
2Px0.5	rm	16/0.2	0.6	0.8	0.9	1.3	12.0	300	39.7
5Px0.5	rm	16/0.2	0.6	1.1	0.9	1.5	17.2	560	39.7
10Px0.5	rm	16/0.2	0.6	1.2	1.25	1.6	22.2	970	39.7
15Px0.5	rm	16/0.2	0.6	1.3	1.6	1.7	25.8	1240	39.7
1Px0.75	rm	24/0.2	0.6	0.8	0.9	1.4	10.9	280	26.5
2Px0.75	rm	24/0.2	0.6	0.9	0.9	1.4	12.8	330	26.5
5Px0.75	rm	24/0.2	0.6	1.2	1.25	1.6	19.3	750	26.5
10Px0.75	rm	24/0.2	0.6	1.3	1.6	1.8	24.3	1260	26.5
15Px0.75	rm	24/0.2	0.6	1.3	1.6	1.9	27.0	1480	26.5
1Px1.0	re	1/1.13	0.6	0.8	0.9	1.3	11.0	290	18.4
2Px1.0	re	1/1.13	0.6	0.9	0.9	1.4	12.6	345	18.4
5Px1.0	re	1/1.13	0.6	1.2	1.25	1.5	19.0	790	18.4
10Px1.0	re	1/1.13	0.6	1.2	1.25	1.7	23.6	1310	18.4
15Px1.0	re	1/1.13	0.6	1.3	1.6	1.8	27.4	1740	18.4
1Px1.5	rm	7/0.53	0.6	0.8	0.9	12.1	11.9	320	12.3
2Px1.5	rm	7/0.53	0.6	0.9	0.9	13.9	14.1	420	12.3
5Px1.5	rm	7/0.53	0.6	1.2	1.25	21.3	21.6	940	12.3
10Px1.5	rm	7/0.53	0.6	1.3	1.6	27.7	27.4	1500	12.3
15Px1.5	rm	7/0.53	0.6	1.5	1.6	31.6	31.2	1970	12.3

Characteristics



Installation condition

