

# INSTRUMENT ARMoured (OS)

## Multi-Core (Cu or ATC/PVC/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-2, Type-2

### VOLTAGE GRADE

U<sub>0</sub>/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 or Stranded Circular, Plain annealed Copper or Tinned Copper, Class-2 or Class 5 to 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

**Bedding:** PVC, TM-1 to BS 7655

**Armour:** Round Galvanized Steel wire

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



No. of cores & 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 armour wire	Nominal thickness of sheath	Approx. Overall diameter of cable	Approx. Weight of cable	Max. D.C Resistance of conductor at 20 °C
core x mm <sup>2</sup>	-	no/mm	mm	mm	mm	mm	mm	kg/km	W/km
2Cx0.5	rm	16/0.2	0.6	0.8	0.9	1.3	11.1	255	39.7
3Cx0.5	rm	16/0.2	0.6	0.8	0.9	1.3	11.0	280	39.7
4Cx0.5	rm	16/0.2	0.6	0.8	0.9	1.3	11.6	305	39.7
6Cx0.5	rm	16/0.2	0.6	0.9	0.9	1.4	13.2	360	39.7
10Cx0.5	rm	16/0.2	0.6	1.0	0.9	1.5	16.0	510	39.7
20Cx0.5	rm	16/0.2	0.6	1.2	1.25	1.6	19.9	960	39.7
2Cx0.75	rm	24/0.2	0.6	0.8	0.9	1.3	11.6	280	26.5
3Cx0.75	rm	24/0.2	0.6	0.8	0.9	1.3	11.6	305	26.5
4Cx0.75	rm	24/0.2	0.6	0.8	0.9	1.3	12.4	335	26.5
6Cx0.75	rm	24/0.2	0.6	0.9	0.9	1.4	14.0	400	26.5
10Cx0.75	rm	24/0.2	0.6	1.1	0.9	1.5	17.0	565	26.5
20Cx0.75	rm	24/0.2	0.6	1.2	1.25	1.6	21.3	950	26.5
2Cx1.5	rm	7/0.53	0.6	0.8	0.9	1.4	12.6	330	12.3
3Cx1.5	rm	7/0.53	0.6	0.9	0.9	1.4	12.8	380	12.3
4Cx1.5	rm	7/0.53	0.6	0.9	0.9	1.4	13.6	420	12.3
6Cx1.5	rm	7/0.53	0.6	1.1	0.9	1.4	15.6	540	12.3
10Cx1.5	rm	7/0.53	0.6	1.2	1.25	1.6	19.7	750	12.3
20Cx1.5	rm	7/0.53	0.6	1.3	1.6	1.7	24.5	1260	12.3

### Characteristics



### Installation condition

