

# MULTI-CONDUCTOR CONTROL CABLE

**12 AWG Shielded Multi-Conductor Cable**

## APPLICATION

NETCON Multi-Conductor Cable suitable for Audio Control, Instrumentation and Building Management Systems (BMS) & Security Systems.

Length available: 305 Meters & above upon request.

## CABLE CONSTRUCTION

Conductor: N x Bare Copper wire, 12 AWG flexible

Insulation: Polyolefin

Core 1: Black, Core 2: Red, Core 3 : White, Core 4: Green, Core 5: Brown, Core 6: Blue, Core 7: Orange Core 8: Yellow

Rip Cord : Nylon Yarn

Screen : Aluminum / Polyester Tape

Drained Wire : Tinned Copper wire

Sheath & Color: PVC / LSZH & Standard Grey

Insulation : PE (High Density Polyethylene)

Foil Coverage : 100%

Drain Wire : Tinned Copper

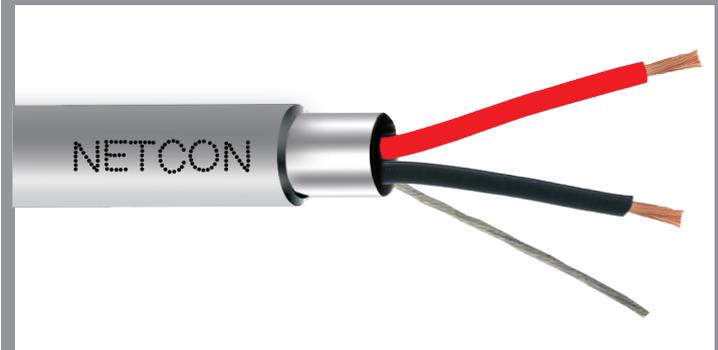
## CHARACTERISTICS

Voltage Rating : 300

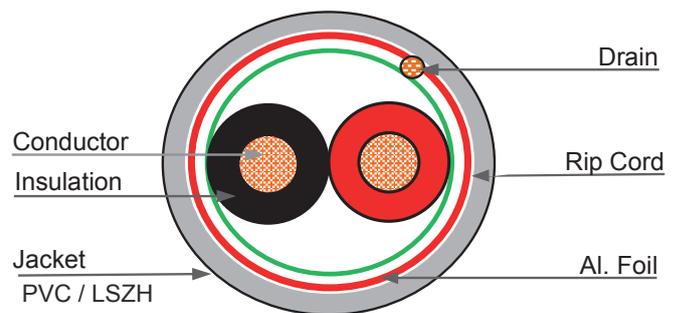
Temperature Limits: Fixed: -20°C to +70°C

Minimum Bending Radius:

As per Cable Manufacturer's Data Sheet



12 AWG Shielded Multi-Conductor Cable



## CORE IDENTIFICATION

Pair 1: ■ Red ■ Black

## DESIGN

Unit	Properties
Conductor	N x Bare Copper wire, 12 AWG flexible
Insulation	Polyolefin Core 1: Black, Core 2: White. Core 3: Red, Core 4: Green, Core 5: Brown, Core 6: Blue, Core 7: Orange, Core 8: Yellow
Drain Wire	20AWG (7x28) Tinned Copper
Screen	Aluminium / Polyester 100% Coverage
Rip cord	Nylon yarn
Sheath Material	Flame- Retardant LSZH / Polyvinyl Chloride (PVC) Standard Colour: Grey
Standard Put Up Length	305 meters

\* Other colours, Put up lengths and structures can be manufactured upon request.

**PHYSICAL CHARACTERISTICS**

Part Number	NTS0212	NTS0412	NTS0612	NTS0812
No. of Cores x 12 AWG (19 x 25)	2	4	6	8
Nominal Diameter Conductor (mm)		2.3		
Nom. Radial Thickness Insulation (mm)		0.3		
Nom. Radial Thickness Sheath (mm)		0.45		
Nom. Overall Diameter (mm)	6.9	8.2	9.8	10.7
Operating Temperature (°C)		-20 / + 70°C		
Max. Recommended Pulling Tension (N)	675	1350	2025	2700
Max. Bend Radius (Install) (mm)	69	82	98	107
Nominal Cable weight (kg/km)	85.7	151.1	215.5	279/5

**ELECTRICAL CHARACTERISTICS**

Part Number	NTS0212	NTS0412	NTS0612	NTS0812
No of cores x 12AWG (19 x 25)	2	4	6	8
Max. DC Resistance Conductor (Ω/km)		5.61		
Max. DC Resistance Screen (Ω/km)		78.5		
Capacitance Conductor to Conductor (pF/m)	105	100	100	100
Capacitance Conductor to other Conductors + Screen (pF/m)	220	180	180	175
Max. Recommended Current at 25°C (amps)	12	9.6	8.4	8.4
Max. Operating Voltage (Vrms)		300		

**REFERENCE STANDARDS**

(BS) EN 50290-2

IEC 60228

IEFC 60332-1

RoHS directives

**ORDERING INFORMATION**

Part No.	Description
NTS0212P/L	Netcon, 2 Core, 12 AWG Multi Conductor Cable, 305M / Roll
NTS0412 P/L	Netcon, 4 Core, 16 AWG Multi Conductor Cable, 305M / Roll
NTS0612 P/L	Netcon, 6 Core, 16 AWG Multi Conductor Cable, 305M / Roll
NTS0812 P/L	Netcon, 8 Core, 16 AWG Multi Conductor Cable, 305M / Roll

Note: NT: Series, S: Shielded , 02 /04/06/08 : No. of Pairs , 12: 12 AWG Bare Copper, P: PVC , L: LSZH