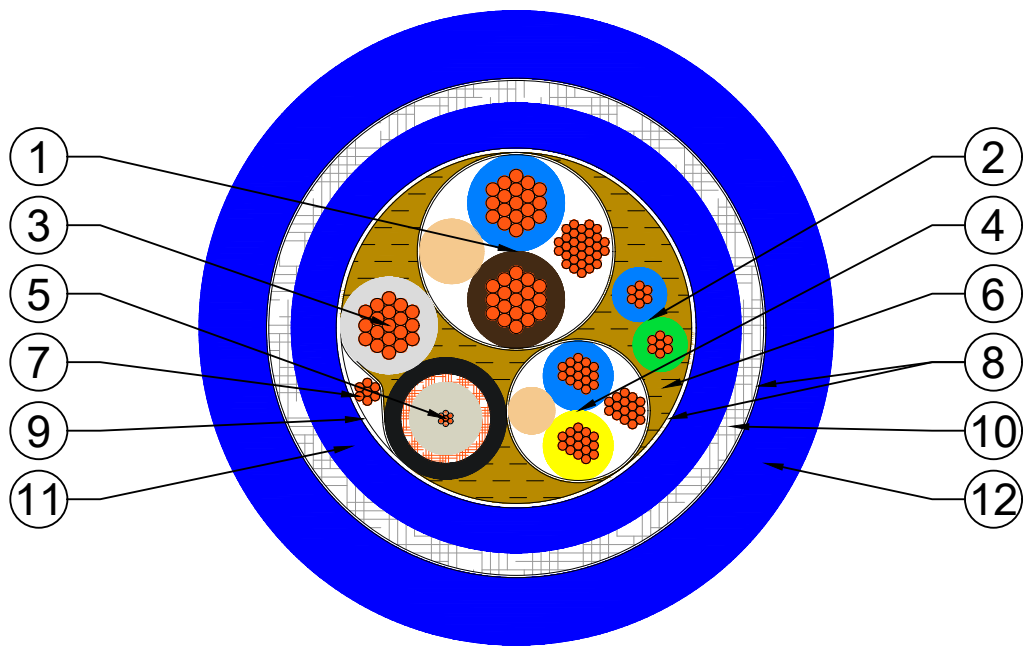


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CABLE ATTRIBUTES	APPROX.
NOMINAL OVERALL DIAMETER	14.1 mm
NOMINAL RADIAL THICKNESS OF OUTER SHEATH	1.5 mm
NOMINAL DIAMETER OVER BRAID	11.1 mm
NOMINAL DIAMETER OVER INNER SHEATH	10.0 mm
NOMINAL RADIAL THICKNESS OF INNER SHEATH	1.0 mm
NOMINAL LAID UP DIAMETER OF CABLE	8.0 mm
WEIGHT OF CABLE IN AIR (APPROX.)	285 kg/km
WEIGHT OF CABLE IN SEAWATER (APPROX.)	124 kg/km
WEIGHT OF CABLE IN FRESHWATER (APPROX.)	129 kg/km
AMBIENT OPERATING TEMPERATURE RANGE	-20 to 60 °C
MAXIMUM CONDUCTOR TEMPERATURE	70 °C
MINIMUM RECOMMENDED STATIC BEND RADIUS	141 mm
MINIMUM RECOMMENDED DYNAMIC BEND RADIUS	212 mm
MAXIMUM CONTINUOUS LENGTH	900 m
MAXIMUM HYDROSTATIC WORKING PRESSURE	2500 PSI

ITEM	QTY.	DESCRIPTION
1	1	1.34 mm ² M.D.P.E. INSULATED, TWISTED SCREENED PAIR
2	1	0.22 mm ² M.D.P.E. INSULATED, TWISTED PAIR
3	1	1.34 mm ² M.D.P.E. INSULATED CONDUCTOR
4	1	0.5 mm ² M.D.P.E. INSULATED, TWISTED SCREENED PAIR
5	1	RG179 COAXIAL
6	A/R	WATER BLOCKING COMPOUND
7	1	0.22 mm ² DRAIN WIRE
8	A/R	POLYESTER TAPE
9	A/R	ALUMINIUM / POLYESTER TAPE
10	A/R	POLYURETHANE INNER SHEATH (R.T. 1.0 mm)
11	A/R	GALVANISED STEEL WIRE BRAID
12	A/R	POLYURETHANE SHEATH (R.T. 1.5 mm)



O.D. 14.1 mm ±0.5 mm

DESCRIPTION :

1 TWISTED SCREENED PAIR (1.34 mm², STRANDED TINNED COPPER, MEDIUM DENSITY POLYETHYLENE INSULATION, ALUMINIUM TAPE + 1.34 mm², STRANDED TINNED COPPER DRAIN WIRE INDIVIDUAL SCREEN) + 1 TWISTED SCREENED PAIR (0.5 mm², CLASS 5 STRANDED TINNED COPPER, MEDIUM DENSITY POLYETHYLENE INSULATION, ALUMINIUM TAPE + 0.5 mm², CLASS 5 STRANDED TINNED COPPER DRAIN WIRE INDIVIDUAL SCREEN) + 1 TWISTED PAIR (0.22 mm², STRANDED TINNED COPPER, MEDIUM DENSITY POLYETHYLENE INSULATION) + 1 CORE (1.34 mm², STRANDED TINNED COPPER, MEDIUM DENSITY POLYETHYLENE INSULATION) + 1 COAXIAL (75 Ω, RG 179) + WATER BLOCKING COMPOUND + COLLECTIVE SCREEN (ALUMINIUM TAPE + 0.22 mm², STRANDED TINNED COPPER DRAIN WIRE) + POLYURETHANE INNER SHEATH (RADIAL THICKNESS 1.0 mm) + GALVANISED STEEL WIRE BRAID + POLYURETHANE SHEATH (RADIAL THICKNESS 1.5 mm)

ELECTRICAL CHARACTERISTICS			
CORE CROSS SECTIONAL AREA	1.34 mm ²	0.5 mm ²	0.22 mm ²
MAX CONDUCTOR RESISTANCE @ 20°C	14.9 Ω/km	40.1 Ω/km	92.0 Ω/km
VOLTAGE RATING	90 V AC	300 V AC	440 V r.m.s.
ROUTINE TEST VOLTAGE	0.75 kV AC/ 1.5 kV DC	1.0 kV AC/ 2.0 kV DC	1.34 kV AC
VOLTAGE TEST DURATION	1 MINUTE	1 MINUTE	5 MINUTES
AC SPARK TEST VOLTAGE	5 kV	5 kV	5 kV
CURRENT RATING IN FREE AIR @ 30°C	11 A	3 A	<1 A
INSULATION RESISTANCE 20°C @ 500 V DC	> 142 MΩ.km	> 213 MΩ.km	> 30.1 MΩ.km

COAXIAL CHARACTERISTICS	
COAXIAL TYPE	RG 179
CHARACTERISTIC IMPEDANCE	75 Ω
MAX CONDUCTOR RESISTANCE @ 20°C	<239.5 Ω/km
CAPACITANCE	54 ±5 pF/m
VELOCITY OF PROPAGATION	82%
ATTENUATION @ 10 MHz	6.0 dB/100m
ATTENUATION @ 100 MHz	19.5 dB/100m
ATTENUATION @ 200 MHz	28.0 dB/100m

NO.	REV.	DESCRIPTION	DATE	BY	CHKD	APPD
10	13529	BRAID SETUP REVIEW	24.07.19	S.M.	I.S.	R.Z.
09	10273	AMEND COAXIAL	04.09.15	I.S.	S.M.	A.S.
08	9929	NEW TEMPLATE, UPDATE DESIGN	23.04.15	I.S.	S.M.	A.S.
07	8737	AMEND O.D. AND SHEATH THICKNESS	20.11.13	I.S.	M.G.	A.S.
06	8582	PRODUCTION RECORDS UPDATE	12.08.13	M.G.	I.S.	A.S.
05	6293	DIMENSIONS AND WEIGHS AMENDED	11.06.10	C.F.	D.H.	D.H.
04	5968	PARTS LIST AND CONSTRUCTION REVISED	26.03.10	C.F.	I.S.	D.H.
03	5454	PRODUCTION RECORDS UPDATE	10.03.09	M.G.	I.S.	D.H.
ISSUE	D.R.F.	MODIFICATION	DRAWN	DATE	CHKD	APPD

"CAD" DRAWING - REVISE AT SOURCE - DO NOT SCALE

CUSTOMER ISSUE NOTIFICATION:- NO

CUSTOMER NAME:- N/A

CUSTOMER REF. No.:- N/A

REFERENCE DOCUMENTATION

DRG. STATUS: **ACTIVE**

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TITLE 1 T.S.P. (1.34 mm²) + 1 T.P. (0.22 mm²) + 1 T.S.P. (0.5 mm²) + 1 COAX (75 OHM, RG179) + 1 CORE (1.34 mm²) + SCREEN + W/B + PUR INNER + G.S.W.B. + PUR SHEATH

DRG. No. **CS 434**

SHT 01	ISSUE
OF 06	10