

COGNEX[®]

1 VISION DRIVE, NATICK, MA 01760

DRAWING NUMBER

SEE CHART Rev: 9/23/2014

ORIGINATOR

C.Griffith

DATE

9/23/2014

UNLESS OTHERWISE SPECIFIED
ALL SURFACE FINISHES 32 MICRO -
INCHES OR BETTER
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/64 DECIMALS .xx±.05 ANGLES ±0°15'
.xxx REF

SIZE

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TITLE
CABLE, M12 MALE TO RJ-45 MALE
STRAIGHT DC KEY, 8/C, X-CODE,
26 AWG, (Template T)

SCALE

N/A

PRODUCT ID

SEE CHART

SHEET

1 OF 2

APPROVED

MAT'L

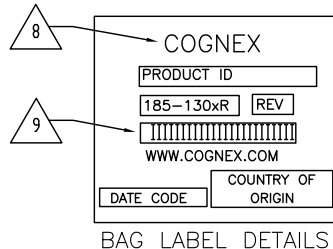
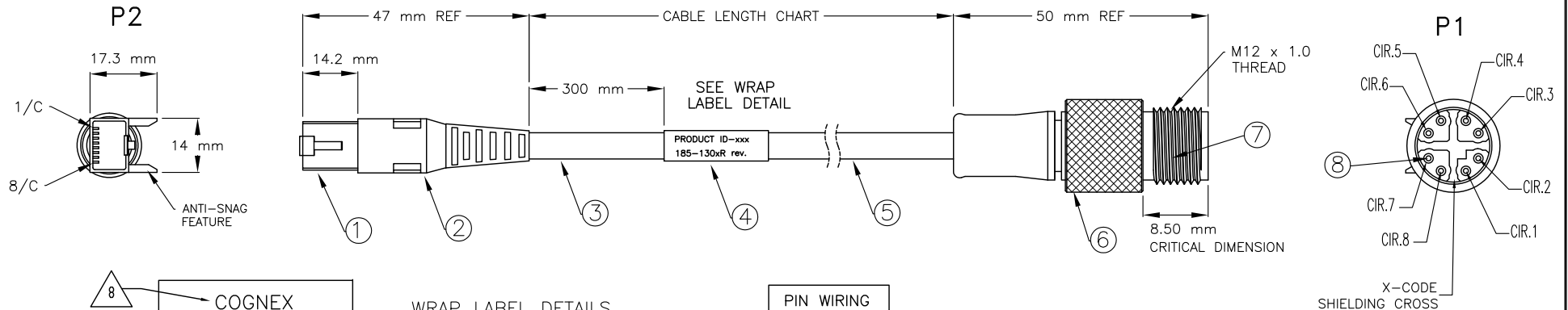
SEE LIST / SPEC.

REVISIONS

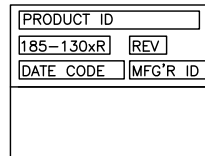
E.C.O	REV.	DESCRIPTION	DWN.	DATE
-	9/23	RELEASE FOR QUOTE ONLY	CBG	9/23/2014

DRAWING #	CABLE LENGTH	PRODUCT ID
185-1305R	.6M +45mm-0mm (2')	NOT ASSIGNED
185-1304R	2M +100mm-0mm (6'7")	NOT ASSIGNED
185-1303R	5M +165mm-0mm (16'4")	NOT ASSIGNED
185-1306R	10M +315mm-0mm (32'8")	NOT ASSIGNED
185-1307R	15M +315mm-0mm (49'2")	NOT ASSIGNED
185-1308R	30M +620mm-0mm (98'5")	NOT ASSIGNED

THIS DRAWING IS FOR
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WRAP LABEL DETAILS



PIN WIRING

P2	P1	WIRE
1/C	CIR.1	WHITE ORANGE
2/C	CIR.2	ORANGE
3/C	CIR.3	WHITE GREEN
4/C	CIR.8	BLUE
5/C	CIR.7	WHITE BLUE
6/C	CIR.4	GREEN
7/C	CIR.5	WHITE BROWN
8/C	CIR.6	BROWN
RJ-45 SHIELD	METAL SHELL	SHIELD

PARTS LIST

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH
1	1	RJ-45 PLUG, SHIELDED	POLYCARB, BRASS	PER VENDOR
2	1	OVERMOLD, STRT, RJ-45	PVC	BLACK
3	A/R	CABLE, SHIELDED HI-FLEX, CAT 5E, 26 AWG	PVC JACKET	TEAL
4	1	WRAP LABEL	PLASTIC FILM	BLACK/YELLOW
5	1	OVERMOLD, STRT, MALE (PLUG), MICRO-C	PVC	BLACK
6	1	COUPLING RING, EXT. THREAD	STAINLESS STEEL	PASSIVATED
7	1	INSULATOR, MALE, 8/C (INTERNAL)	NYLON	BLACK
8	8	CONTACT PIN, IEC	BRASS	GOLD PLATED

NOTES:

- THIS CABLE MUST BE MADE FROM UL AND CSA RECOGNIZED OR LISTED PARTS.
- THIS CABLE MUST BE SUPPLIED BY A UL AND CSA APPROVED VENDOR AND MUST BE SHIPPED IN THE APPROPRIATELY MARKED CONTAINERS.
- THIS DELIVERABLE MUST COMPLY WITH THE EU RoHS DIRECTIVE THAT RESTRICTS THE USE OF HAZARDOUS SUBSTANCES AS DEFINED IN THE COGNEX STANDARD S707.
- SHIELD TO BE TERMINATED TO COUPLING NUT (ITEM 6).
- SEE CONNECTOR VIEWS FOR PIN ORIENTATIONS.
- HIGH POT TEST AND VERIFY CONTINUITY ON ALL CONDUCTORS.
- CABLE TO BE COILED AND PACKAGED IN AN 8" X 10" CLEAR PLASTIC BAG.
- COGNEX LOGO FONT: EUROSTILE EXT2
- BARCODE CONTENT: 185- per chart
BARCODE TYPE: 128 6MM HIGH (MIN)

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STRAIGHT DC KEY, 8/C, X-CODE,
26 AWG, (Template T)SCALE
N/APRODUCT ID
SEE PAGE 1 CHARTSHEET
2 of 2

CHECKED BY

APPROVED

MATERIAL SEE LIST / SPEC.

REVISIONS

E.C.O	REV.	DESCRIPTION	DWN.	DATE
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Component	Parameter	Requirement	
M12-8 Connector	Nut	Material	Stainless steel
		Plating	Passivate
		Size (knurl length)	16.5mm
	Coding	Type	"X" Code
	Pins	Material	Brass
		Plating	Gold plate
		Type	IEC
	Insert	Material	Zinc DieCast, Nickle Plate
	Overmold	Material	PVC
	Strain Relief	length	15mm
RJ-45 Connector	Connector Type	Type	Cat 6
	Shield	Type	Full
		Material	Brass
		Plating	Tin
	Overmold	Material	PVC
		Overall Length	33mm
Lock protection		Molded anti-snag feature	
Cable	Type	Type	Cat 5e
	Jacket	UL Style	2464
Jacket material		PVC	
Jacket thickness		0.8mm	
Overall Dia		6.8mm	
Jacket color		Teal	
Conductors	Pairing	4 twisted pairs	
	Wire	26AWG	
	Cond insulation material	Polypropylene	
	Cond overall dia	1.0mm	
	Stranding	19 / 38AWG	
	Shield	Type	Braid
Braid wire		38 AWG tinned copper	
Braid coverage		≥90%	
Cable Assembly	Performance	Current rating	2A
		Voltage rating	60V
		Operating temp	-0C - 80C
		Linear Bend Cycle rating	1,000K (10 x OD)
		Tortional Cycle rating	30K (180°)
		Compliance (elect)	UL & CSA comp parts
		Compliance (env)	Rohs
		Flame Rating	IEC 60332-1-2
		Protection (moisture)	IEC IP67
			EIA-TIA 568 B.2
		Electrical	Category 5e

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